

Puget Sound Gateway Program

SR 167 Completion and SR 509 Completion Projects

Joint Steering Committee
December 7, 2016

CRAIG J. STONE, PE	GATEWAY PROGRAM ADMINISTRATOR
STEVE FUCHS, PE	SR 167 PROJECT MANAGER
OMAR JEPPERSON, PE	SR 509 PROJECT MANAGER

Agenda

- Welcome & Introductions
- Process Review
- Project Scenarios and Traffic Analysis Results
- Review Forward Compatibility
- Review Updated Cost Estimates
- Discuss FASTLANE Grant Application
- Recommend Preliminary Preferred Scenario
- Conclusion and Next Steps

Practical Design

- **WSDOT Executive Order 1096:**

- *WSDOT will design transportation infrastructure related solutions that are targeted to **address the essential needs of a project, not every need**. In doing so, designs are developed with criteria that achieve stated performance for the least cost...*

- **ESHB 2012:**

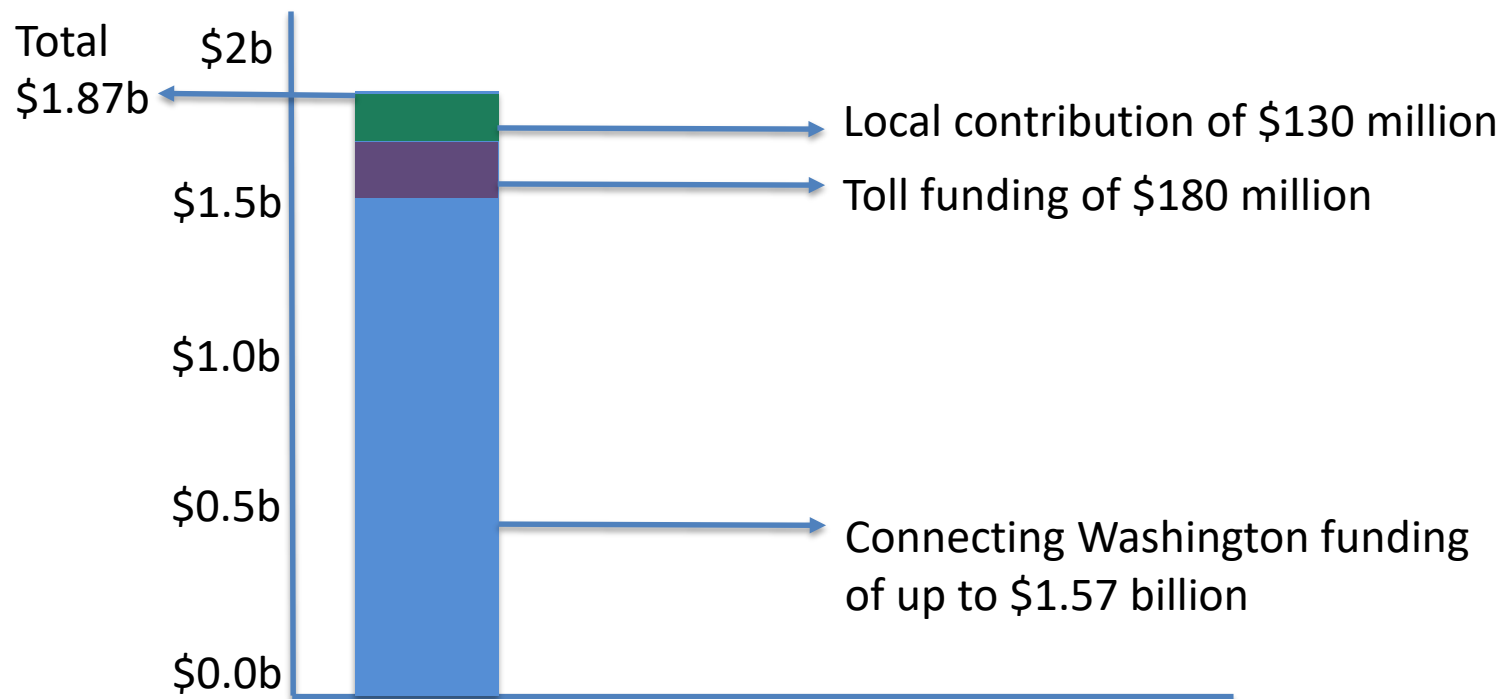
- *(1)(a) For projects identified as Connecting Washington projects...The legislature encourages the department to continue to institutionalize innovation and collaboration in design and project delivery with an eye toward the most efficient use of resources. **In doing so, the legislature expects that, for some projects, costs will be reduced during the project design phase due to the application of practical design***

Puget Sound Gateway Program Guiding Principles

1. Support regional mobility to provide efficient movement of freight and people
2. Improve local, regional, state and national economic vitality
3. Provide a high level of safety
4. Support local and regional comprehensive land use plans
5. Minimize environmental impacts and seek opportunities for meaningful improvements
6. Create solutions that are equitable, fiscally responsible, and allow for implementation over time
7. Support thoughtful community engagement and transparency

Puget Sound Gateway Program

Total funding is \$1.87 billion; this amount assumes \$310 million local match and tolling funding.

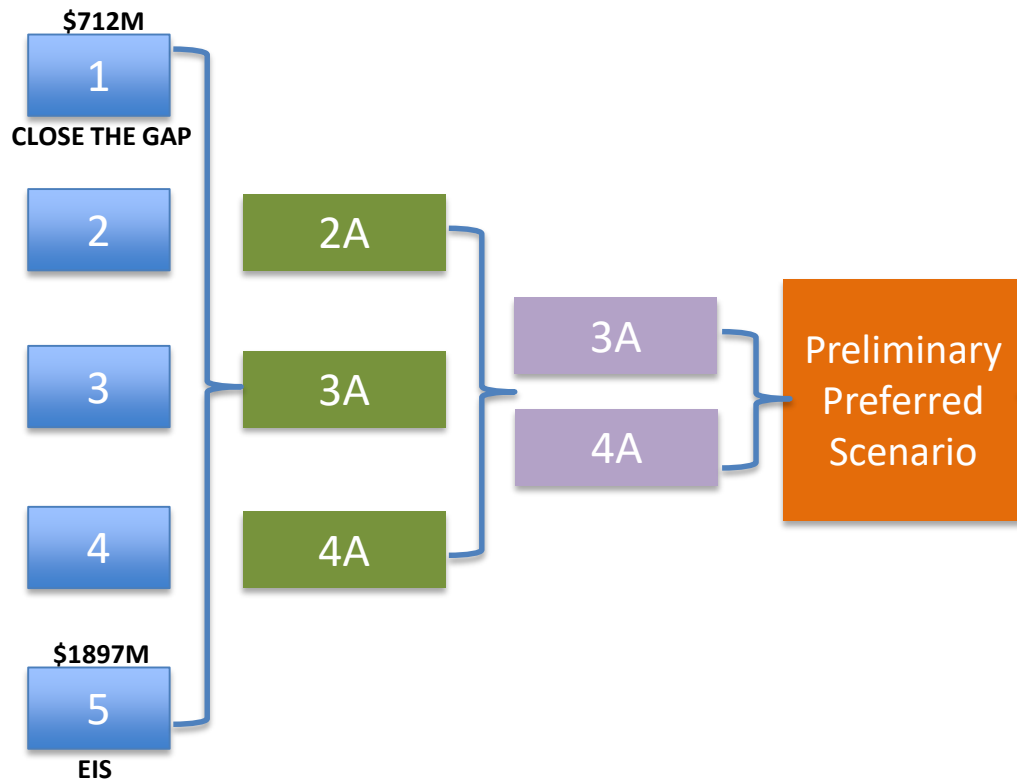


Joint Steering Committee Work Plan

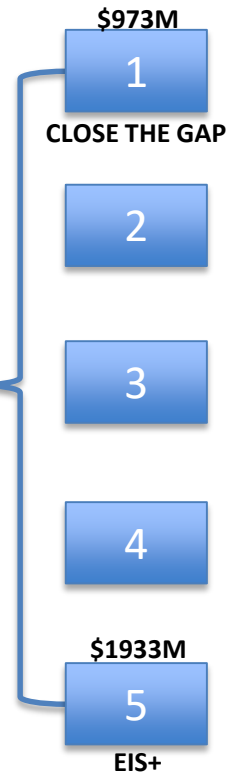


Scenario Refinement Process

SR 509 Process



SR 167 Process



SR 167 Scenario Comparison Table

Scenario Comparison Table - SR 167 Completion Project

Performance Category ➡	Baseline Performance Metrics														Contextual Performance Metrics								Cost								
	Mobility											Economic Vitality		Safety	Safety	Active Mobility			Env't	Other											
Mode ➡	Auto /Freight	HOV / Bus	Auto /Freight	HOV/Bus	Auto /Freight	HOV / Bus	Auto /Freight	HOV / Bus	Auto /Freight	HOV / Bus		Auto /Freight	HOV / Bus			Ped	Bike	Ped	Bike												
Performance METRIC ➡	SR 167 Performance Maintain or Improve SR 167 Operations between SR 161 and I-5		SR 509 Spur Performance Maintain or Improve SR 509 Spur Operations between I-5 and SR 509		I-5 Performance Maintain or Improve I-5 Operations between I-705 and SR 18		Travel Time Reduce travel time between Urban Centers, and Manufacturing Industrial Centers in Pierce & S. King County		Travel Time Reliability Improve travel time reliability between Urban Centers, and Manufacturing Industrial Centers in Pierce & S. King County		Complete Freeway Network / Redundancy Achieved		Delay Reduce hours of delay in subarea network		Economic Benefit Improve economic vitality		Local and Regional Comprehensive Plan Support local and regional comprehensive land use planning and development		Safety # of Serious Injury and Fatal Crashes (I-5 & SR 167 & SR 509)		Safety # of Serious Injury and fatal crashes on local arterials	Number and location of Crossings Reduce Pedestrian vehicle exposure by reducing traffic volumes		Continuity and Consistency of Pedestrian facility Improve Pedestrian & Bicycle continuity along new corridor		Sensitive Area Impact Reduce area of impact to sensitive areas		Forward Compatibility Right of Way Impact Reduce Right of Way Impact		Compatibility With Transit/Long Range Plans	
SCENARIO																															
No Build																															
Scenario 2C: Full Connectivity at I-5 with Split Diamond at Valley and Meridian																															
Scenario 2D: Limited Connectivity at I-5 with Split Diamond at Valley & Meridian																															
Scenario 4A: Moderate Connectivity at I-5 w/Full Meridian Connectivity																															

SR 509 Scenario Comparison Table

Scenario Comparison Table - SR 509 Completion Project

Date: 12/07/16

[illegible]

Key Questions

Program Level	<ol style="list-style-type: none">1. How many lanes are included on SR 167 and SR 509?2. What level of tolling is considered?3. How are lanes managed?
Project Level	<ol style="list-style-type: none">4. What degree of forward compatibility should be included in the design?5. Degree of potential impact to I-5?6. Where are connections most important?7. How is south access to the airport accommodated? (SR 509)8. How is access to the Port of Tacoma best accommodated? (SR 167)

SR 167 Scenarios & Traffic Analysis

Scenario 2C: Full Connectivity at I-5 with Split Diamond Interchange at Valley Avenue and Meridian Avenue



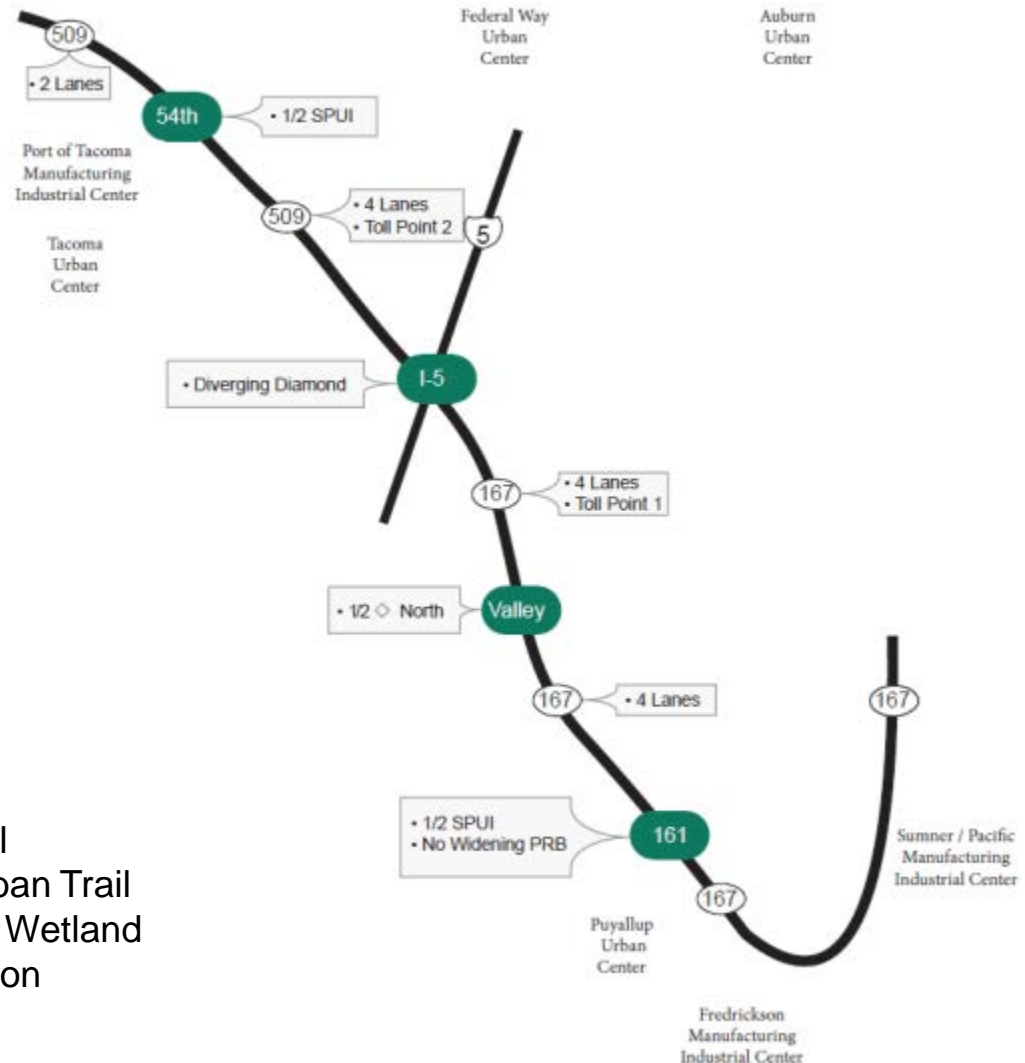
Scenario 2C: Full Connectivity at I-5 with Split Diamond Interchange at Valley Avenue and Meridian Avenue

Highlighted features:

- ½ SPUI at 54th Ave interchange
- Service level Diverging Diamond interchange at I-5
- ½ Diamond interchange at Valley Avenue
- ½ SPUI interchange at Meridian Avenue

Other Items Total

- Interurban Trail
- RRP & Wetland Mitigation



Scenario 2D: Limited Connectivity at I-5 with Split Diamond Interchange at Valley Avenue and Meridian Avenue



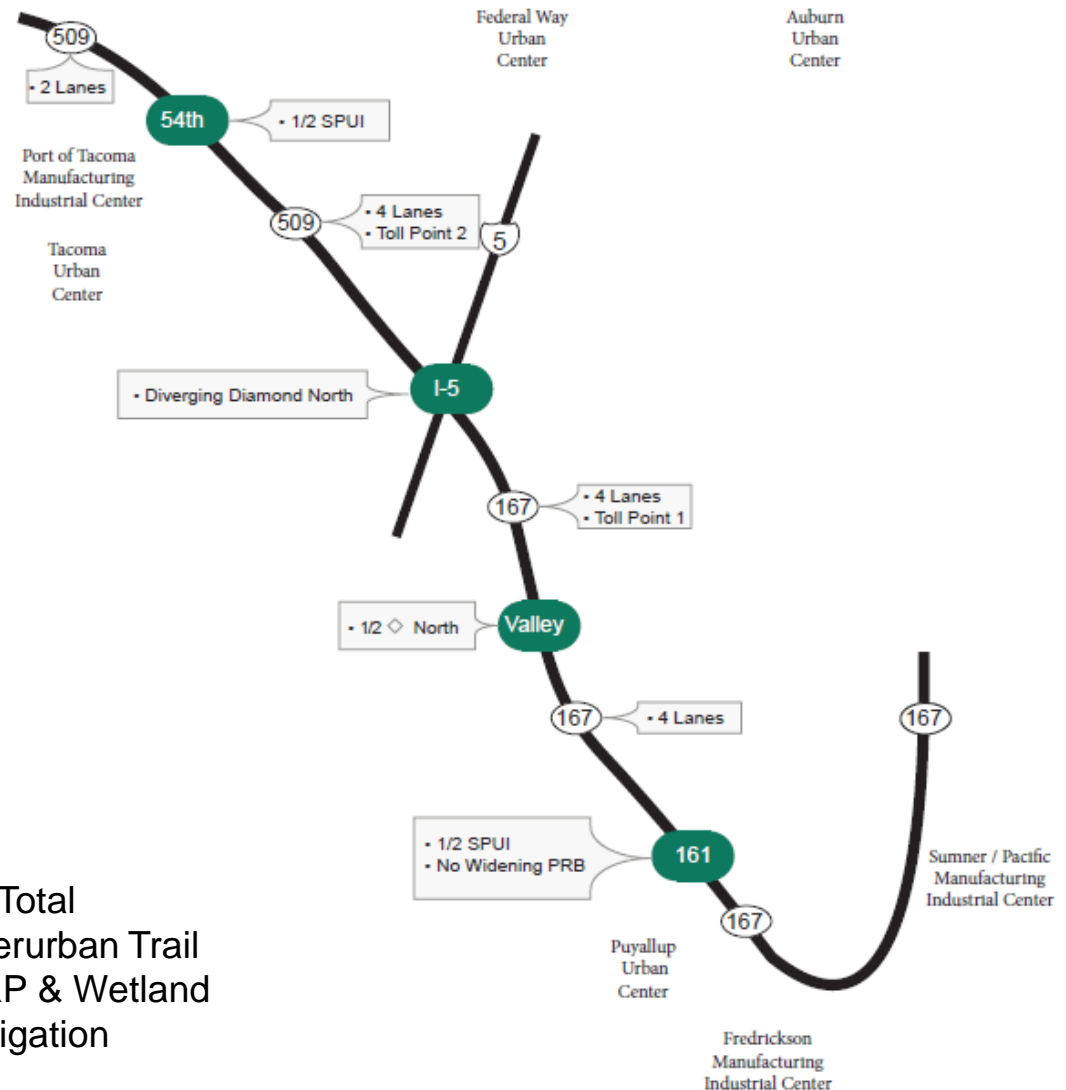
Scenario 2D: Limited Connectivity at I-5 with Split Diamond Interchange at Valley Avenue and Meridian Avenue

Highlighted features:

- ½ SPUI at 54th Ave interchange
- Service level Diverging Diamond interchange at I-5 with connections to/from north only
- ½ Diamond interchange at Valley Avenue
- ½ SPUI interchange at Meridian Avenue

Other Items Total

- Interurban Trail
- RRP & Wetland Mitigation



Scenario 4A: Moderate Connectivity at I-5 with Full Connectivity at Meridian Avenue



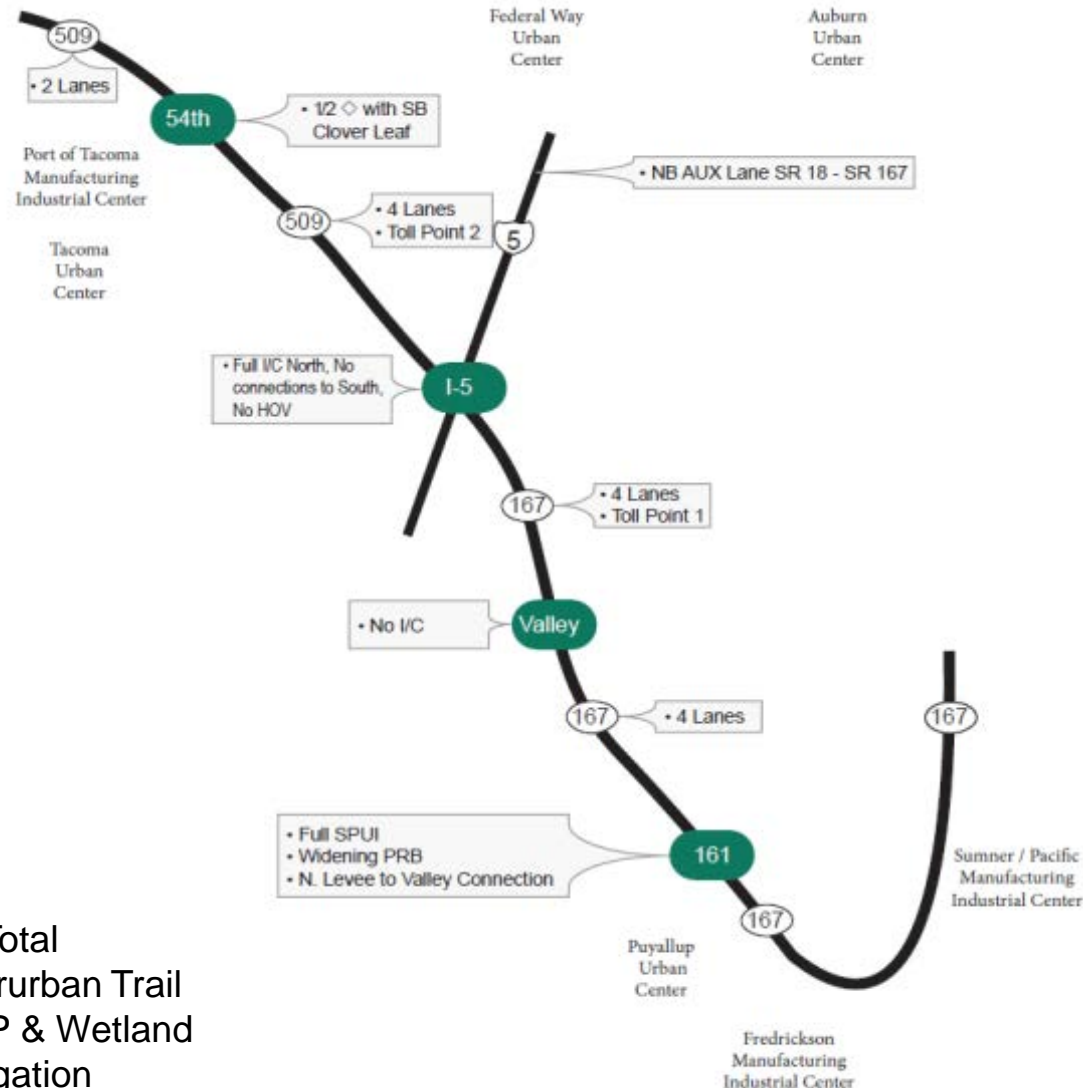
Scenario 4A: Moderate Connectivity at I-5 with Full Connectivity at Meridian Avenue

Highlighted features:

- ½ Diamond with SB cloverleaf at 54th Ave interchange
- System level interchange to/from the north at I-5
- NB I-5 auxiliary lane
- No interchange at Valley Avenue
- Full SPUI at Meridian interchange
- Widen NB Puyallup River Bridge
- N. Levee to Valley Connector

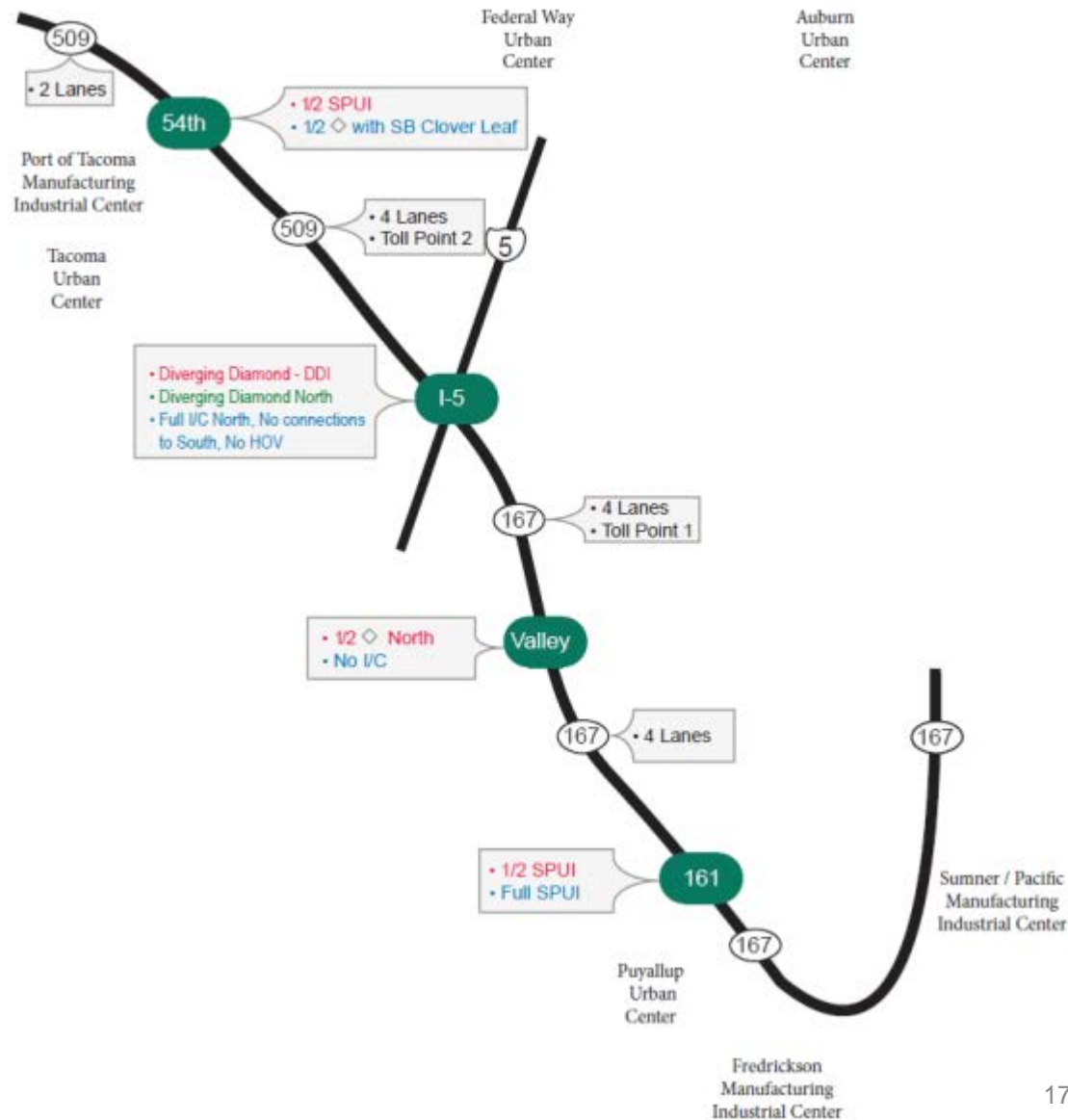
Other Items Total

- Interurban Trail
- RRP & Wetland Mitigation



Scenario 2C/2D/4A Comparison

- Legend:
- Scenario 2C
 - Scenario 2D
 - Scenario 4A
 - Shared Component



Refined Traffic Analysis Results

- Presents only analysis for PM peak
- Used Dynamic Traffic Assignment (DTA)/Mesoscopic tools

I-5 Travel Times

2-9 Through Study Area on I-5

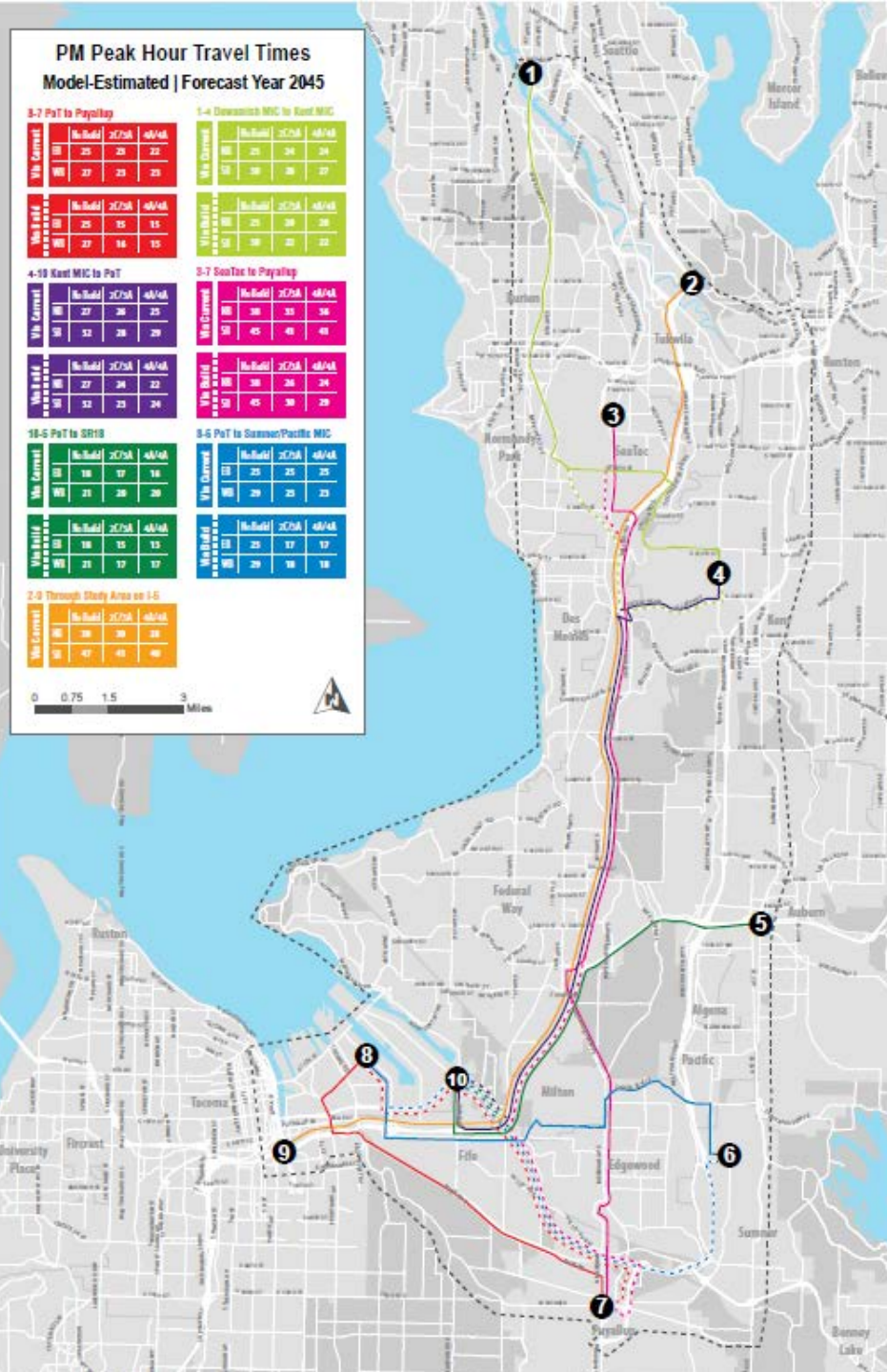
2025

Via Current	No Build	2C/3A	4A/4A
NB	27	27	26
SB	36	34	35

2-9 Through Study Area on I-5

2045

Via Current	No Build	2C/3A	4A/4A
NB	30	30	28
SB	47	41	40



PM Peak Projected Travel Times for Selected South End Routes: 2025

8-7 PoT to Puyallup

Via Current		No Build	2C/3A	4A/4A
	EB	21	20	21
Via Current	WB	23	19	19

Via Build		No Build	2C/3A	4A/4A
	EB	21	14	14
Via Build	WB	23	14	13

10-5 PoT to SR18

Via Current		No Build	2C/3A	4A/4A
	EB	17	15	14
Via Current	WB	17	17	18

Via Build		No Build	2C/3A	4A/4A
	EB	17	14	12
Via Build	WB	17	14	16

8-6 PoT to Sumner/Pacific MIC

Via Current		No Build	2C/3A	4A/4A
	EB	25	24	24
Via Current	WB	22	22	22

Via Build		No Build	2C/3A	4A/4A
	EB	25	16	16
Via Build	WB	22	16	16

4-10 Kent MIC to PoT

Via Current		No Build	2C/3A	4A/4A
	NB	26	24	23
Via Current	SB	29	27	27

Via Build		No Build	2C/3A	4A/4A
	NB	26	23	21
Via Build	SB	29	22	23

% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• EB	33%	33%
• WB	39%	43%

% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• EB	36%	36%
• WB	27%	27%

PM Peak Projected Travel Times for Selected South End Routes: 2045

8-7 PoT to Puyallup

Via Current		No Build	2C/3A	4A/4A
	EB	25	23	22
Via Current	WB	27	23	23

Via Build		No Build	2C/3A	4A/4A
	EB	25	15	15
Via Build	WB	27	16	15

% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• EB	40%	40%
• WB	40%	44%

10-5 PoT to SR18

Via Current		No Build	2C/3A	4A/4A
	EB	18	17	16
Via Current	WB	21	20	20

Via Build		No Build	2C/3A	4A/4A
	EB	18	15	13
Via Build	WB	21	17	17

4-10 Kent MIC to PoT

Via Current		No Build	2C/3A	4A/4A
	NB	27	26	25
Via Current	SB	32	28	29

Via Build		No Build	2C/3A	4A/4A
	NB	27	24	22
Via Build	SB	32	23	24

8-6 PoT to Sumner/Pacific MIC

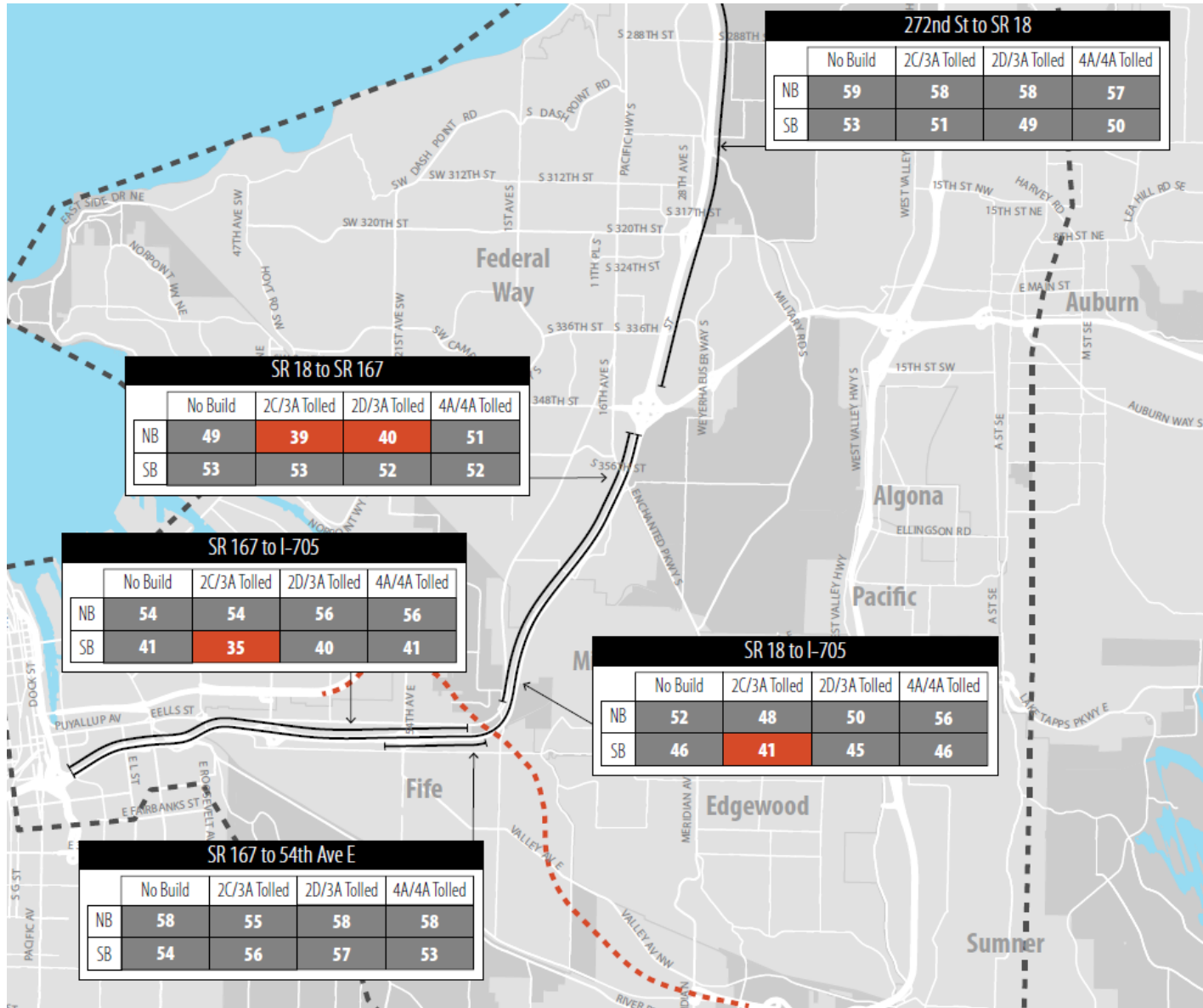
Via Current		No Build	2C/3A	4A/4A
	EB	25	25	25
Via Current	WB	29	23	23

Via Build		No Build	2C/3A	4A/4A
	EB	25	17	17
Via Build	WB	29	18	18

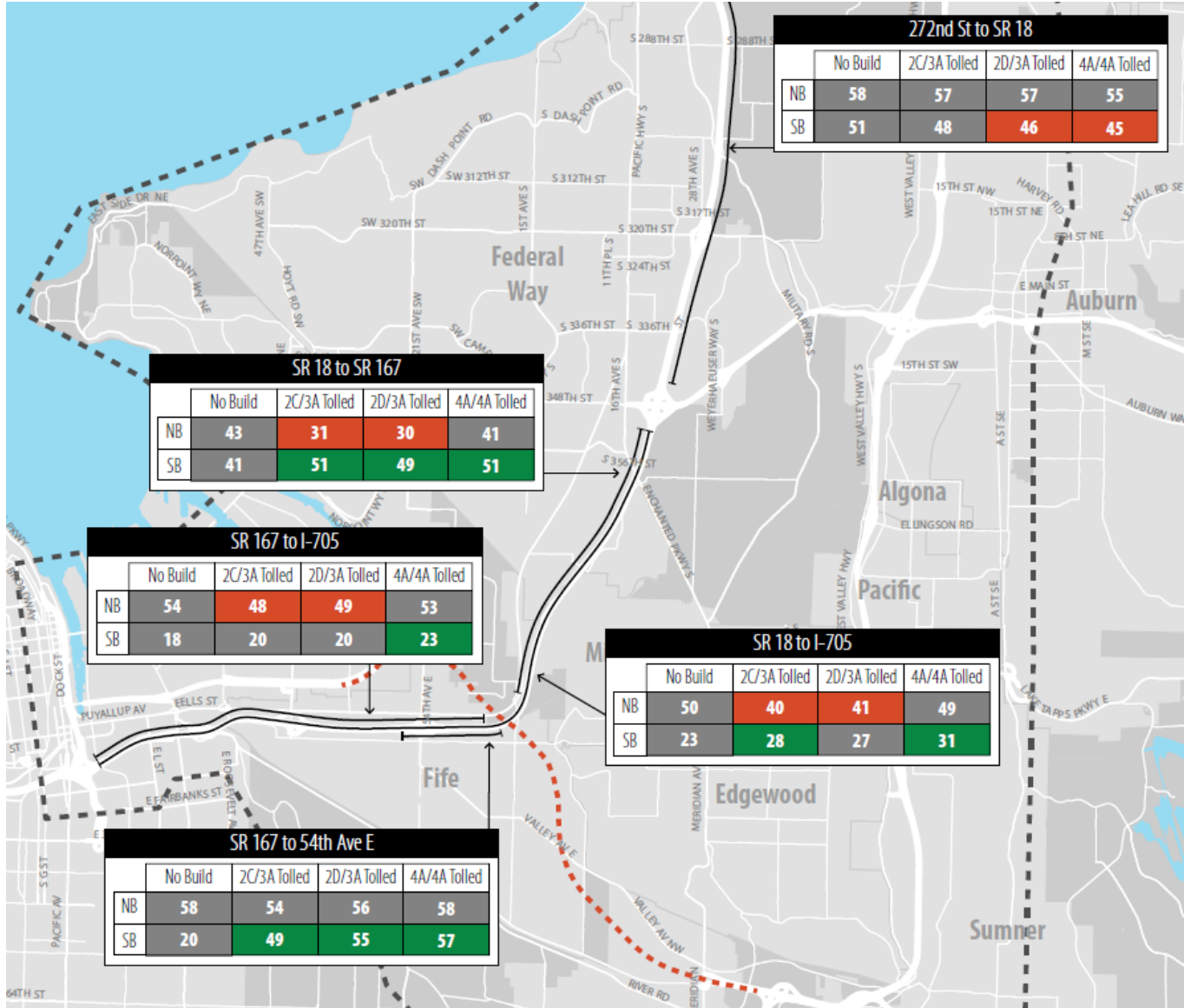
% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• EB	32%	32%
• WB	38%	38%

PM Peak Period Speeds: 2025



PM Peak Period Speeds: 2045

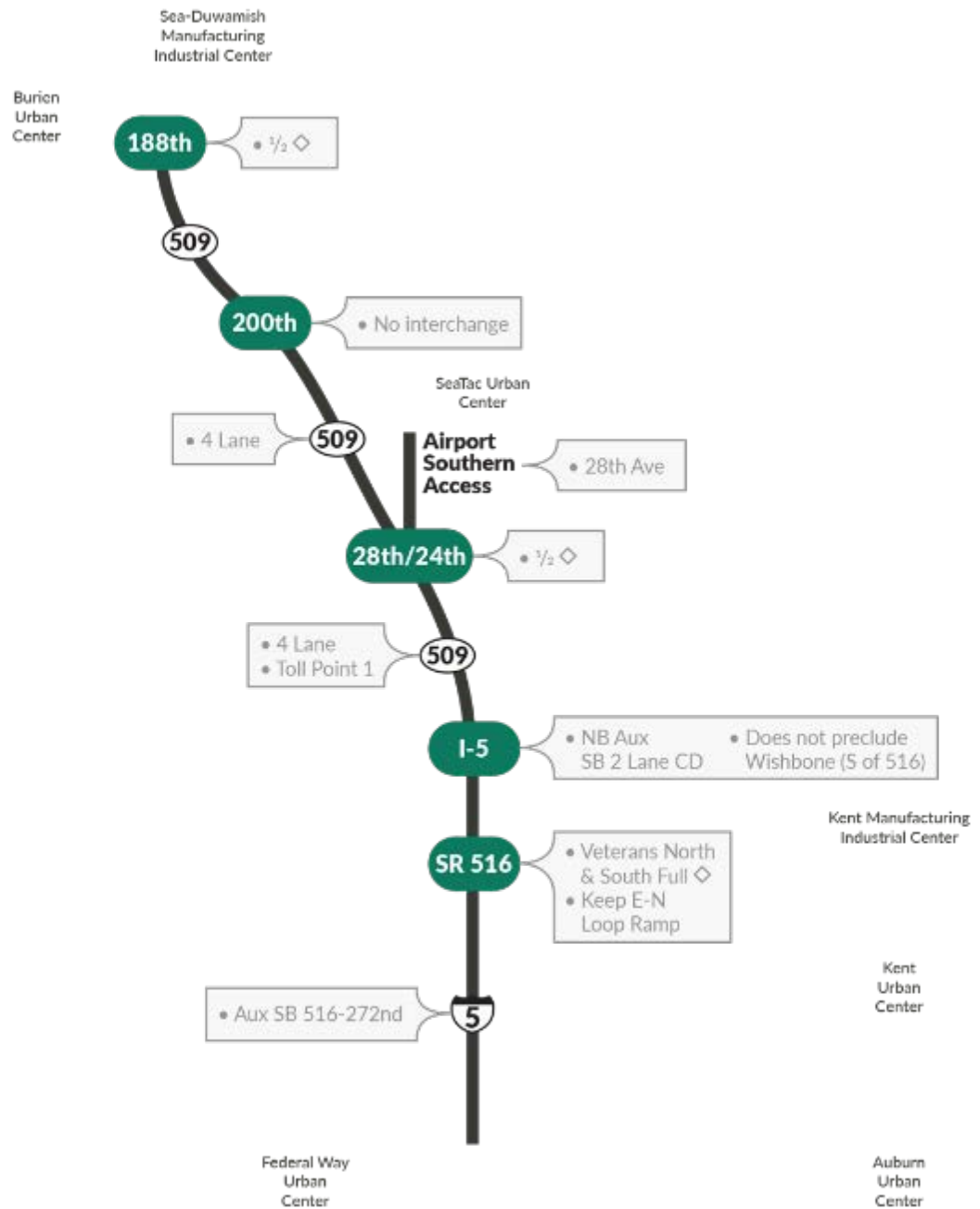


SR 509 Scenarios & Traffic Analysis

Scenario 3A



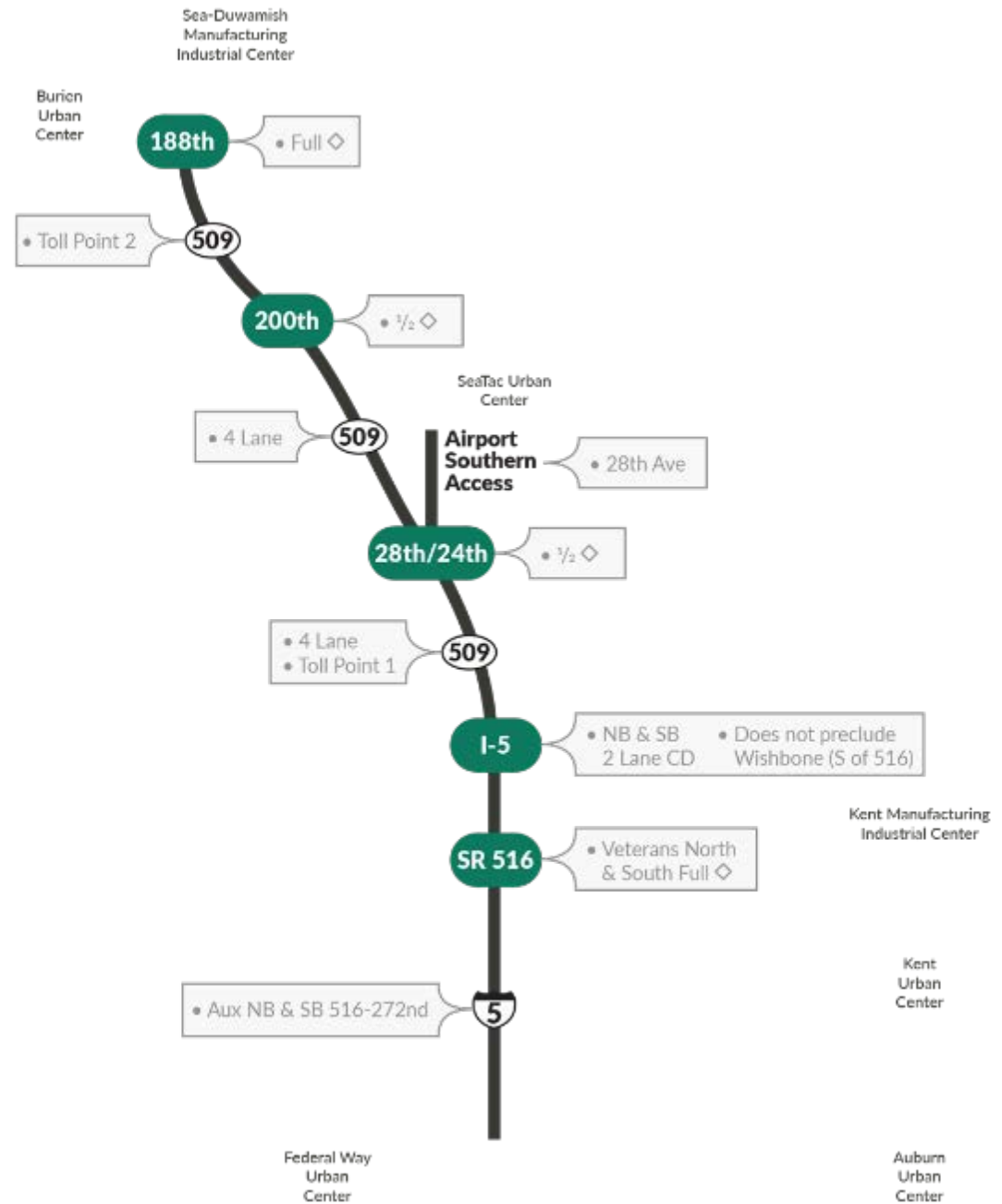
Scenario 3A



Scenario 4A

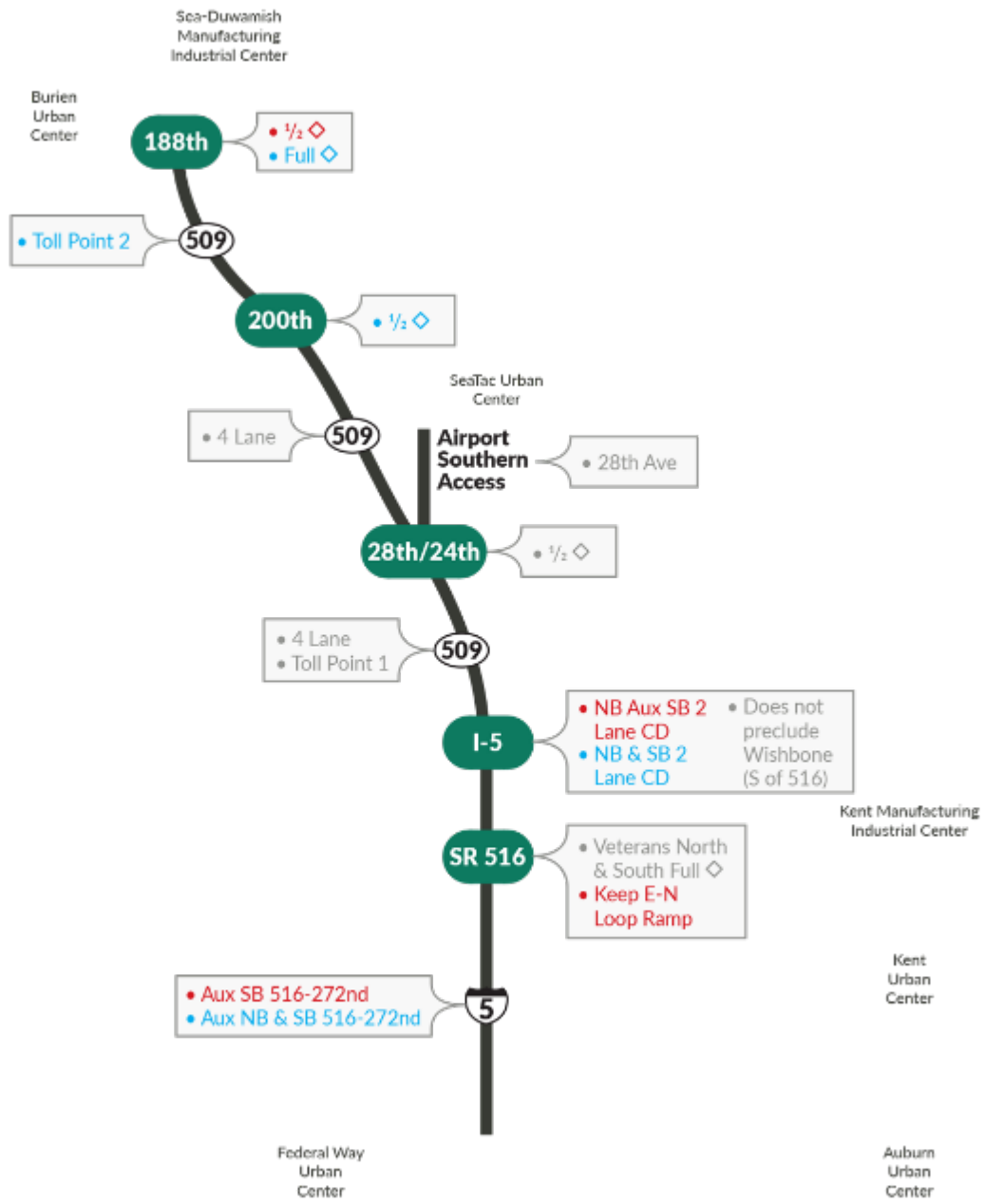


Scenario 4A



Scenario 3A/4A

- Legend:
- Scenario 3A
 - Scenario 4A
 - Shared Component



Refined Traffic Analysis Results

- Presents only analysis for PM peak
- Used Dynamic Traffic Assignment (DTA)/Mesoscopic tools

I-5 Travel Times

2-9 Through Study Area on I-5

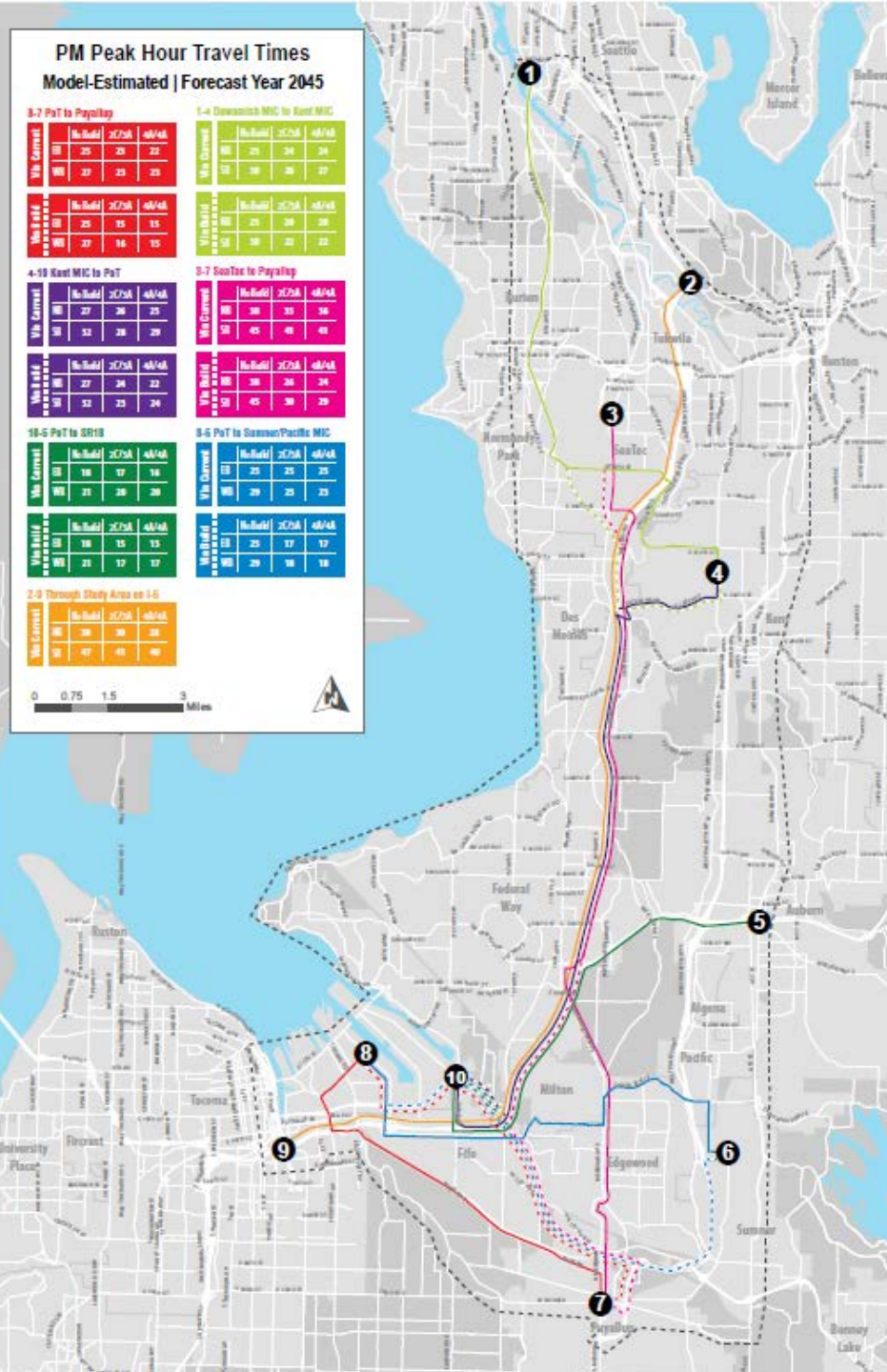
2025

Via Current	No Build	2C/3A	4A/4A
NB	27	27	26
SB	36	34	35

2-9 Through Study Area on I-5

2045

Via Current	No Build	2C/3A	4A/4A
NB	30	30	28
SB	47	41	40



PM Peak Period Travel Times: 2025

1-4 Duwamish MIC to Kent MIC

Via Current			
	No Build	2C/3A	4A/4A
	NB	23	24
SB	25	25	25

Via Build			
	No Build	2C/3A	4A/4A
	NB	23	19
SB	25	21	21

% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• NB	17%	17%
• SB	16%	16%

3-7 SeaTac to Puyallup

Via Current		No Build	2C/3A	4A/4A
	NB	35	34	34
	SB	42	39	41

Via Build		No Build	2C/3A	4A/4A
	NB	35	27	24
	SB	42	31	30

% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• NB	23%	31%
• SB	26%	29%

PM Peak Period Travel Times: 2045

1-4 Duwamish MIC to Kent MIC

Via	Current	No Build	2C/3A	4A/4A
	NB	25	24	24
	SB	30	28	27

Via	Build	No Build	2C/3A	4A/4A
	NB	25	20	20
	SB	30	22	22

% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• NB	20%	20%
• SB	27%	27%

3-7 SeaTac to Puyallup

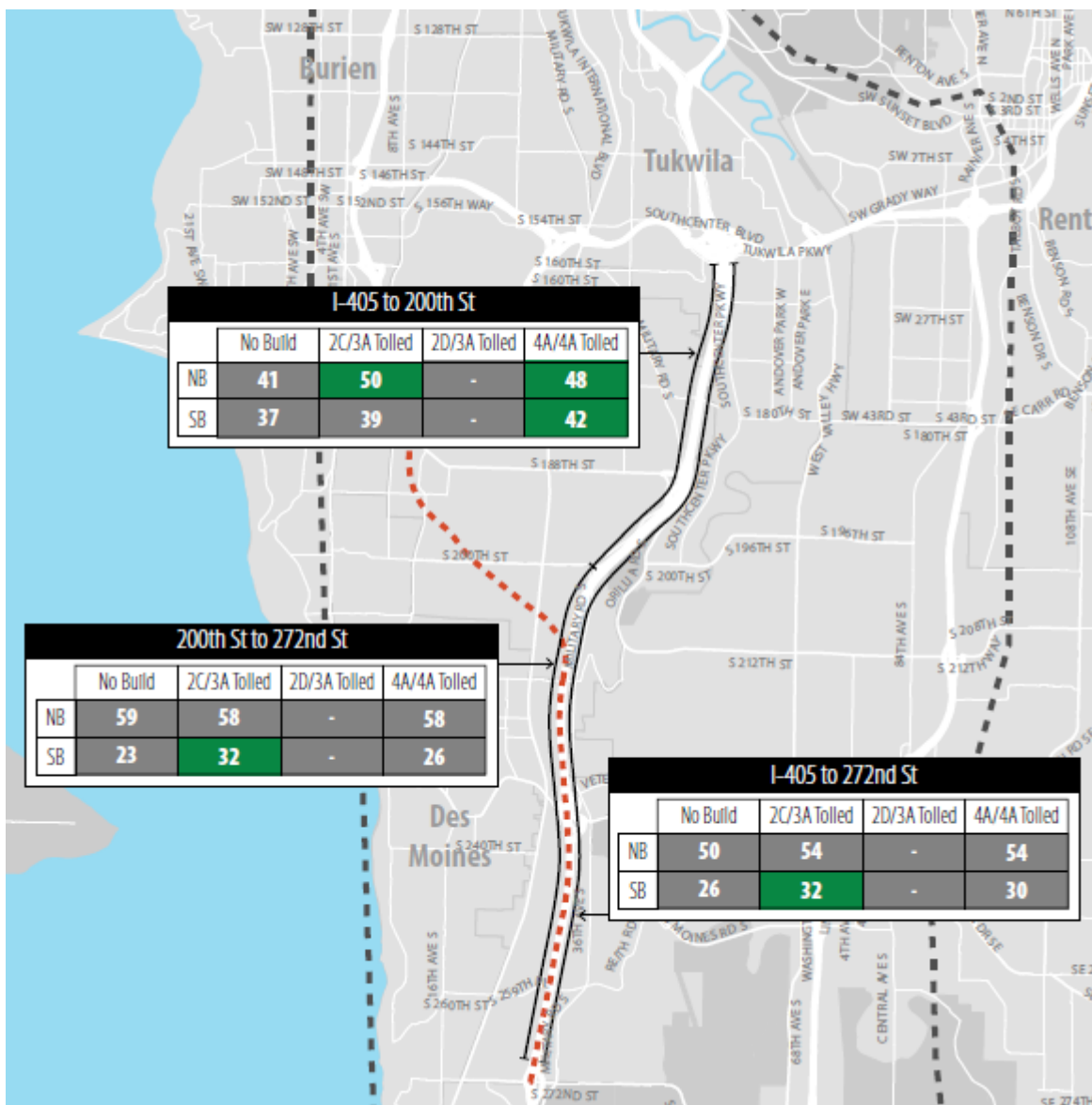
Via	Current	No Build	2C/3A	4A/4A
	NB	38	35	36
	SB	45	41	41

Via	Build	No Build	2C/3A	4A/4A
	NB	38	26	24
	SB	45	30	29

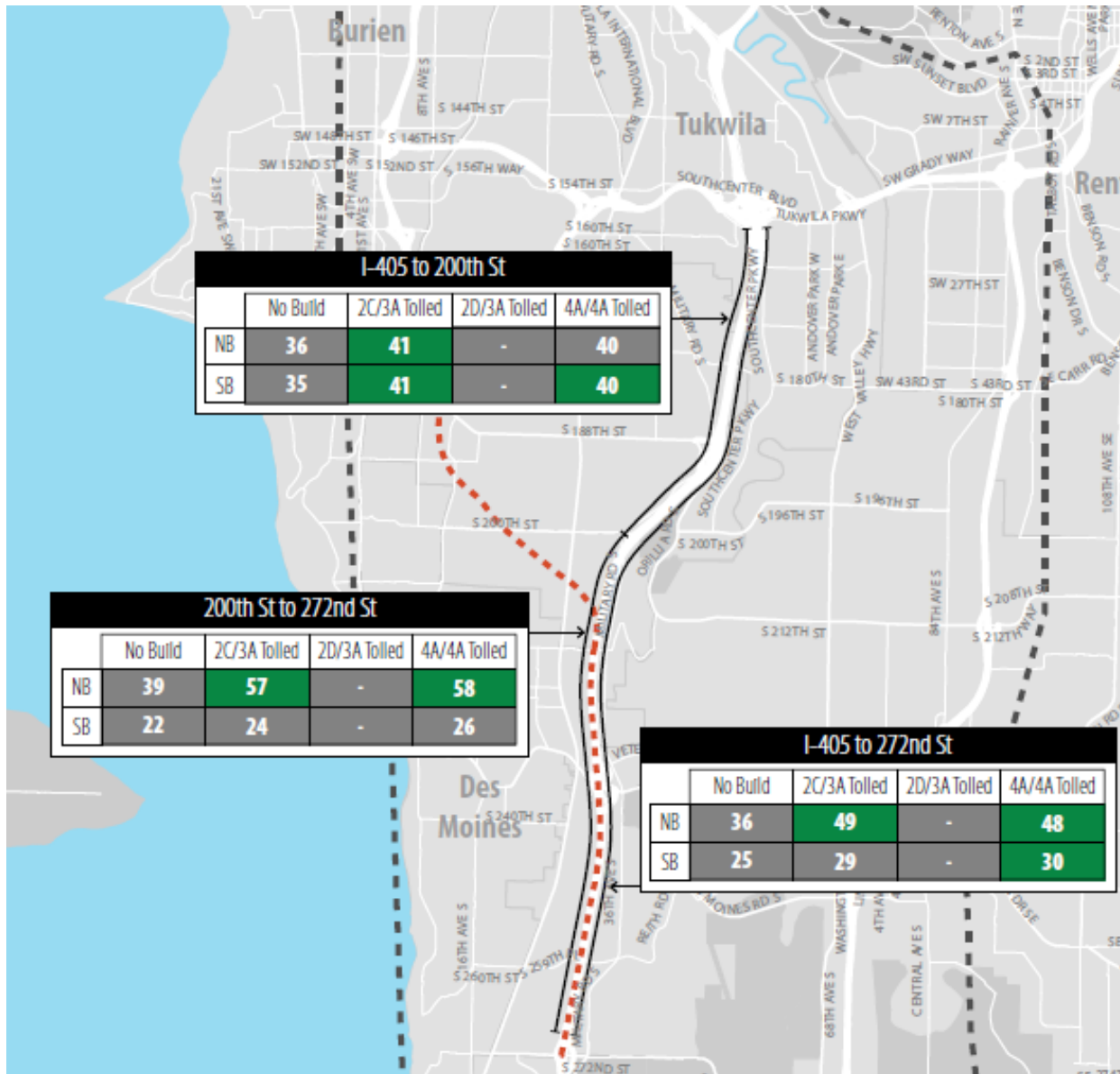
% Travel Time Savings:

	<u>2C/3A</u>	<u>4A/4A</u>
• NB	32%	37%
• SB	33%	36%

PM Peak Period Speeds: 2025



PM Peak Period Speeds: 2045



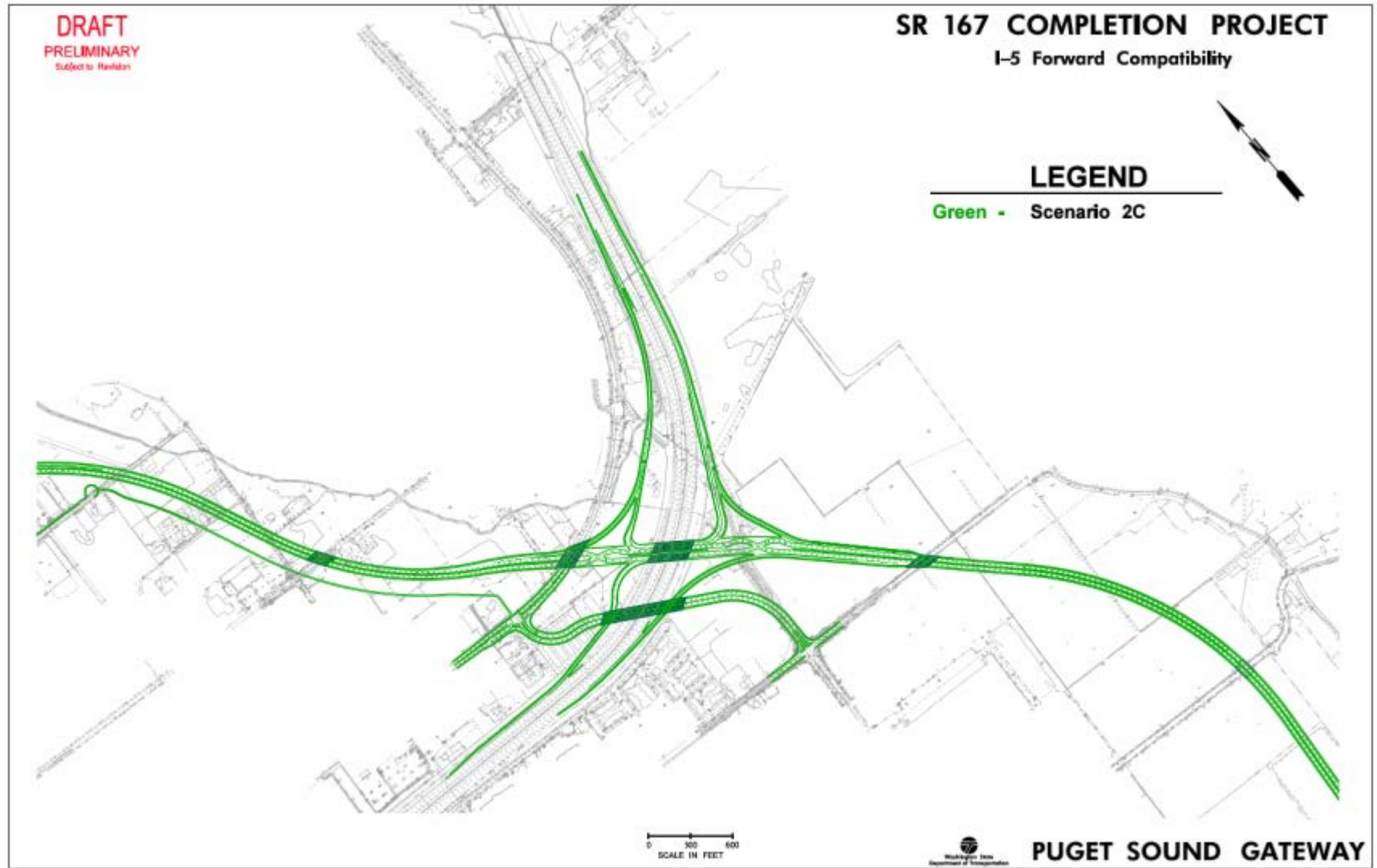
SR 167 Forward Compatibility

Forward Compatibility Considerations on SR 167

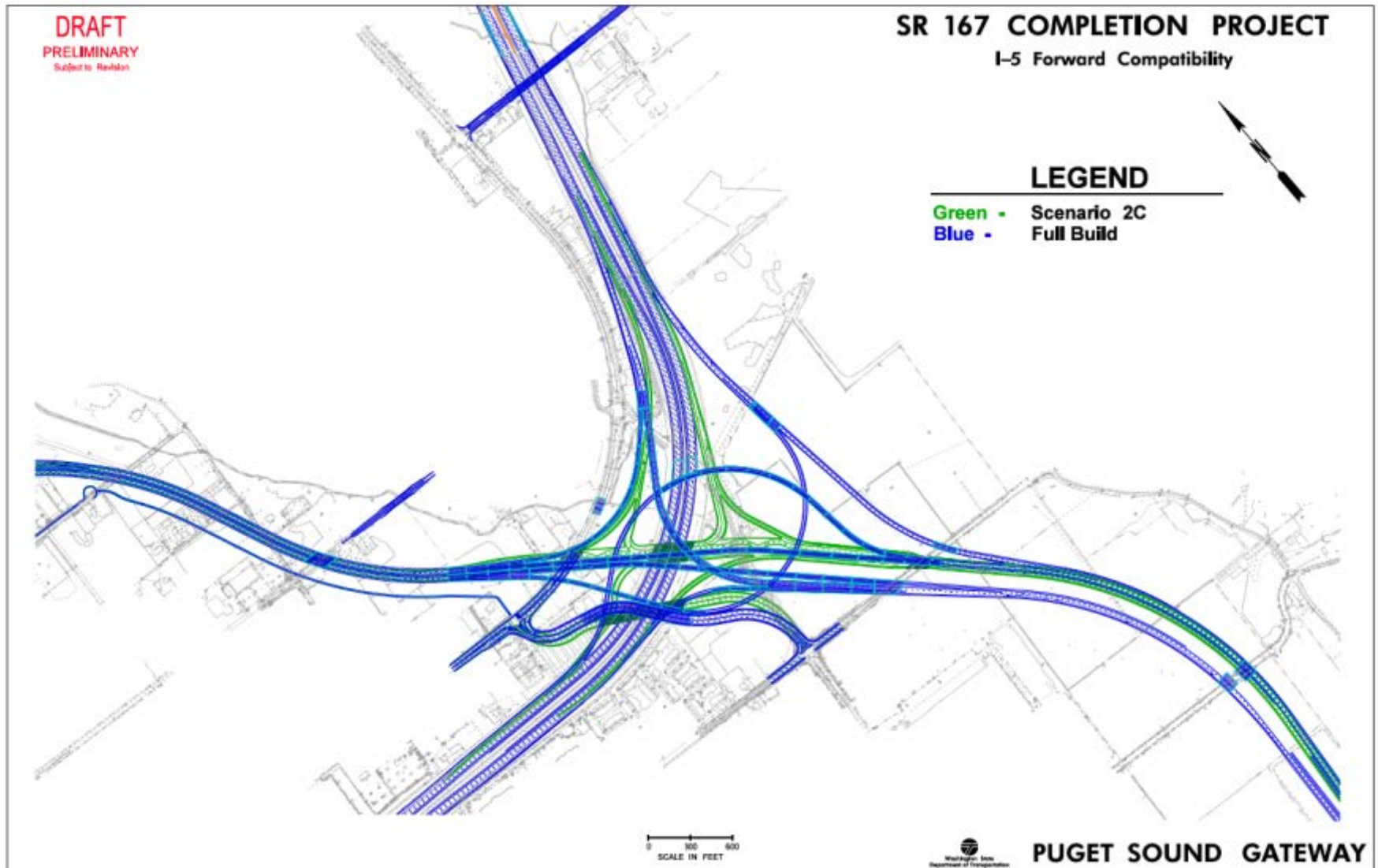
What degree of forward compatibility should be included in the design?

- At the I-5/SR 167 Interchange
- Construct initial narrower project footprint
- Plan for full build out
- Right of way acquisition for remainder of corridor

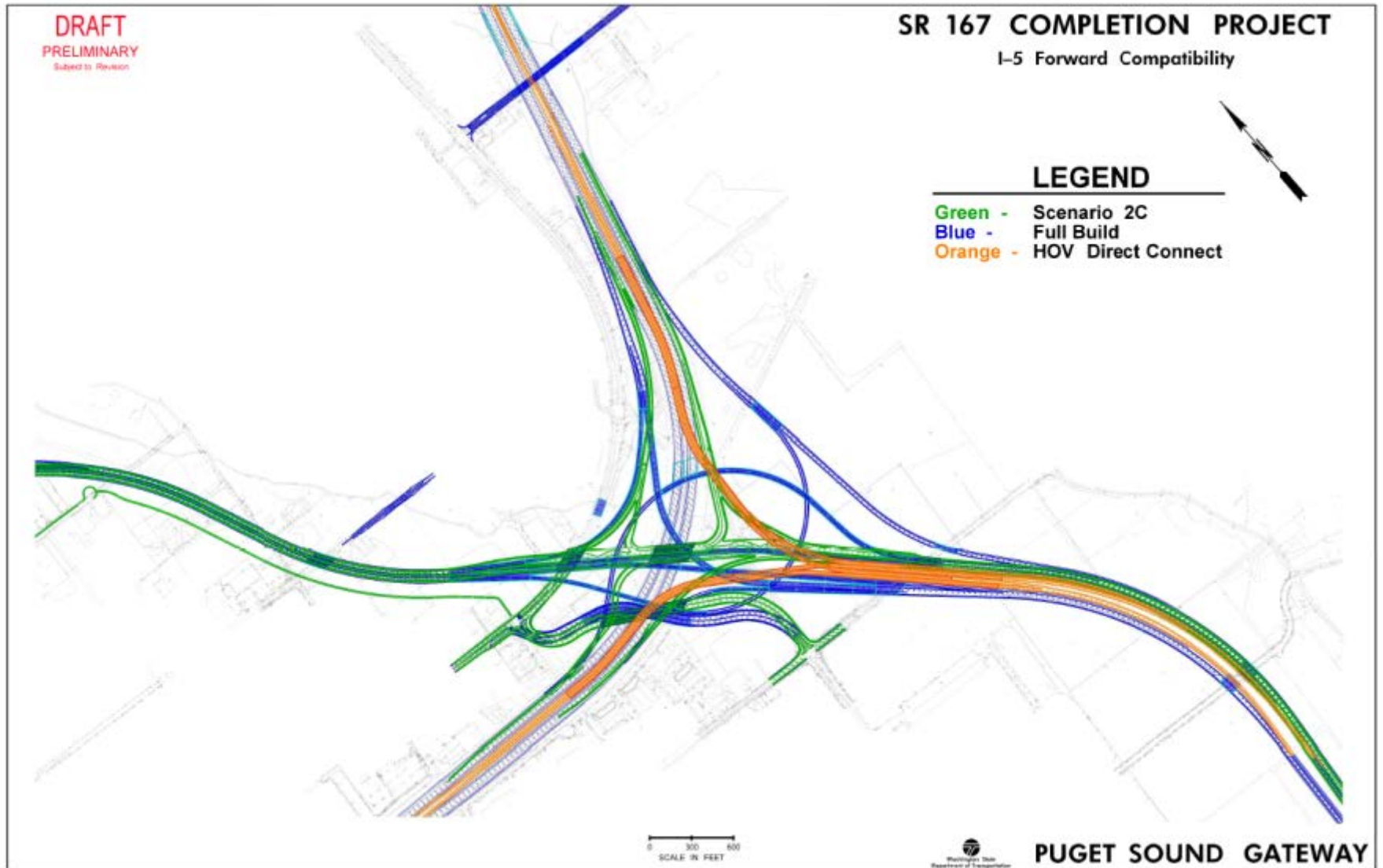
Forward Compatibility at I-5 interchange



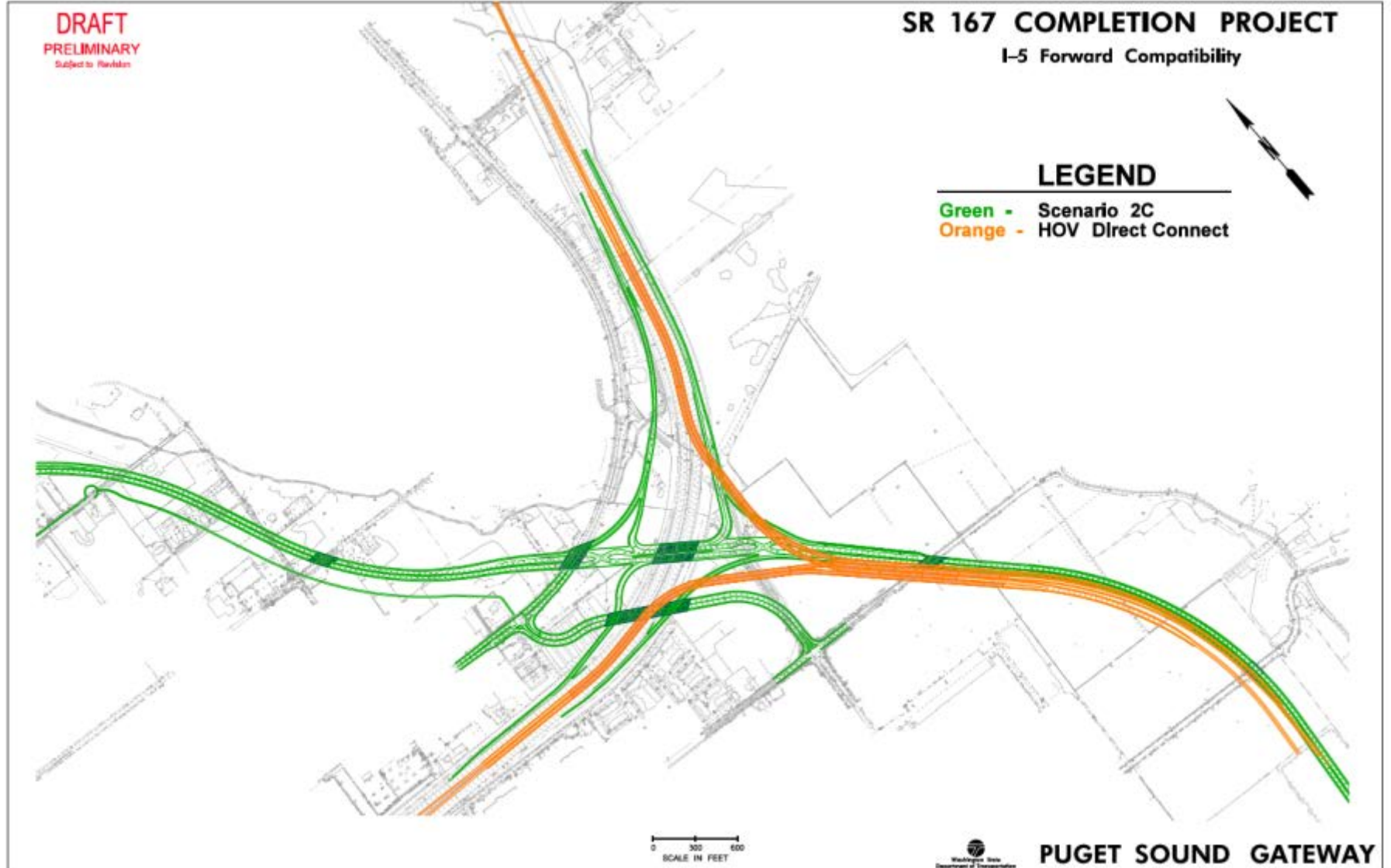
Forward Compatibility at I-5 interchange



Forward Compatibility at I-5 interchange



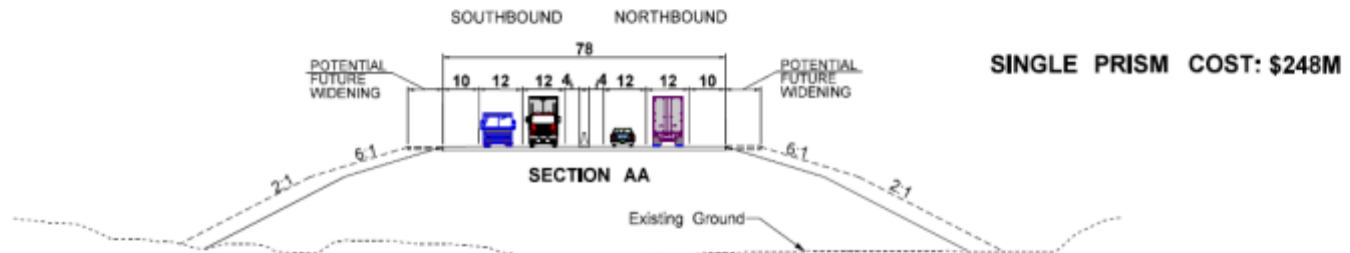
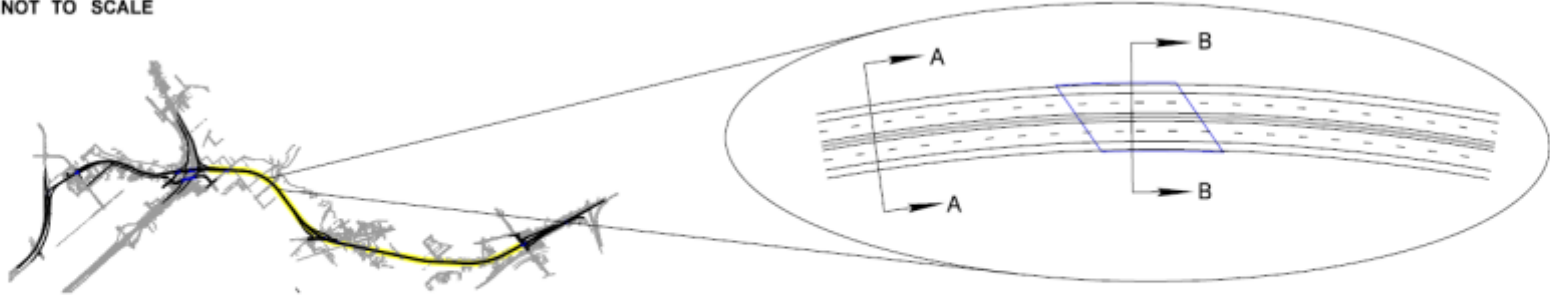
Forward Compatibility at I-5 interchange



Forward Compatibility with Footprint

I-5 TO SR 161 – 2 LANES EACH DIRECTION, SINGLE ROADWAY PRISM – PHASE 1

NOT TO SCALE

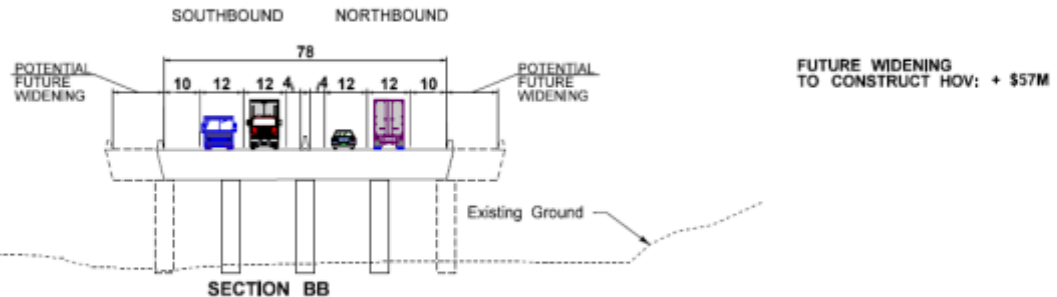


ADVANTAGES:

- SMALLER INITIAL FOOTPRINT
- LESS WETLAND IMPACTS

DISADVANTAGES:

- CLOSED DRAINAGE SYSTEM TO MAINTAIN
- BARRIER MORE EXPENSIVE TO MAINTAIN THAN CABLE GUARDRAIL

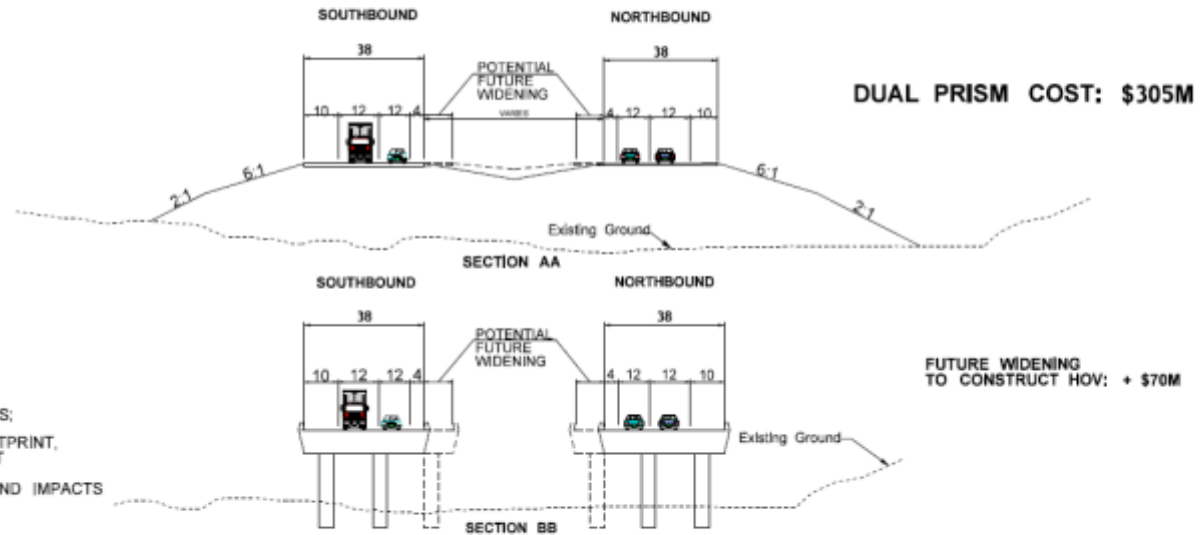
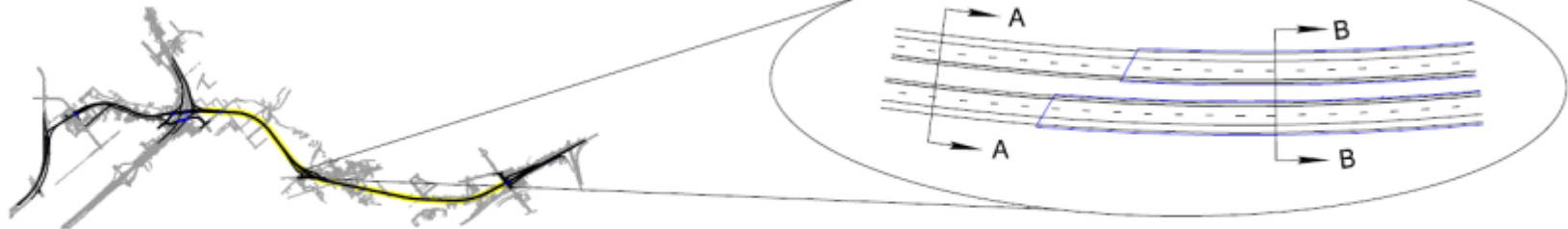


**FOR DISCUSSION
PURPOSES ONLY**

Forward Compatibility with Footprint

I-5 TO SR 161 – 2 LANES EACH DIRECTION, DUAL ROADWAY PRISM – PHASE 1

NOT TO SCALE



ADVANTAGES:

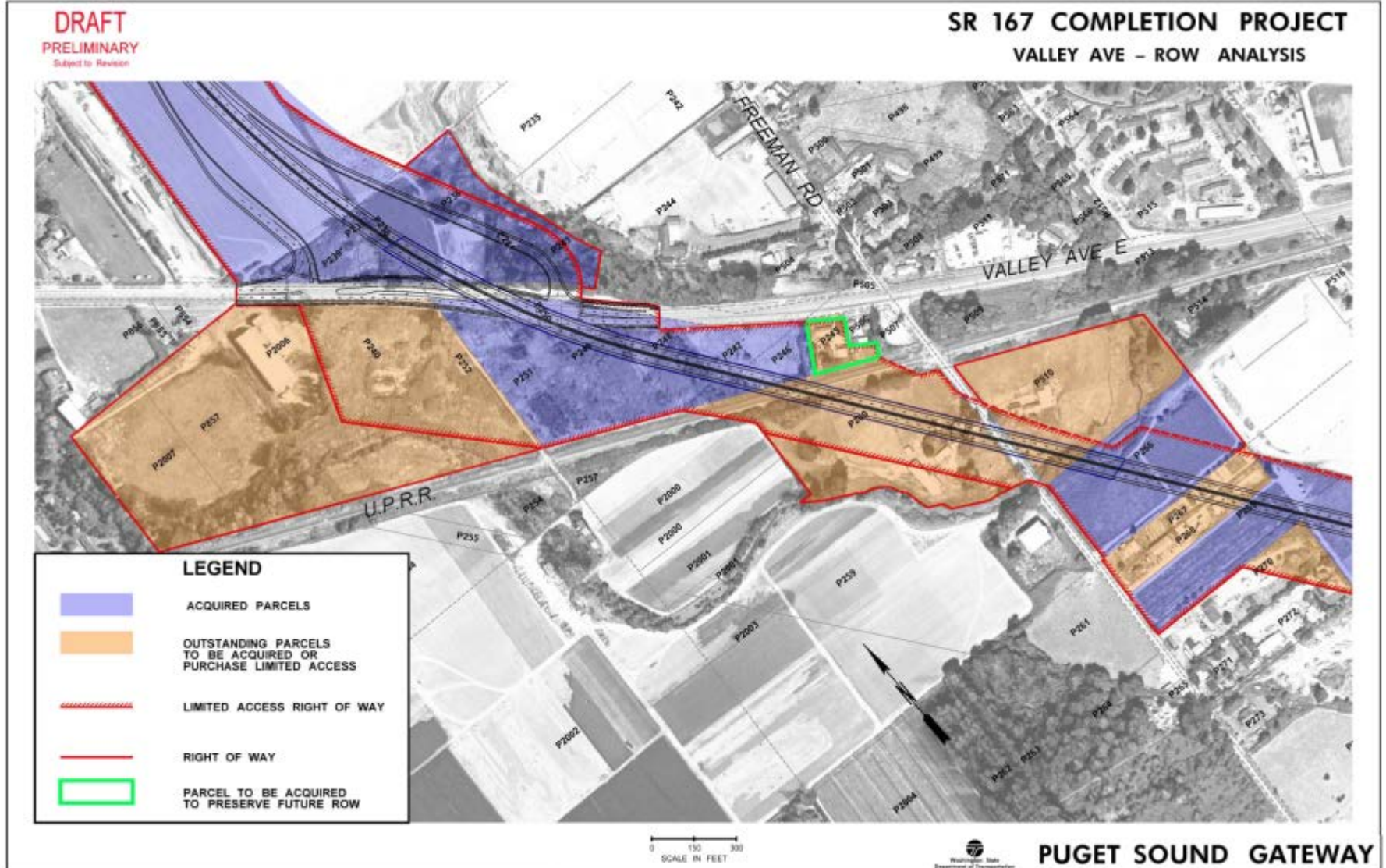
- NO CLOSED DRAINAGE TO MAINTAIN
- NO BARRIER TO MAINTAIN
- ABLE TO USE EMBANKMENT FOR INFILTRATION
- EASIER TO ADD HOV IN FUTURE PHASE

DISADVANTAGES:

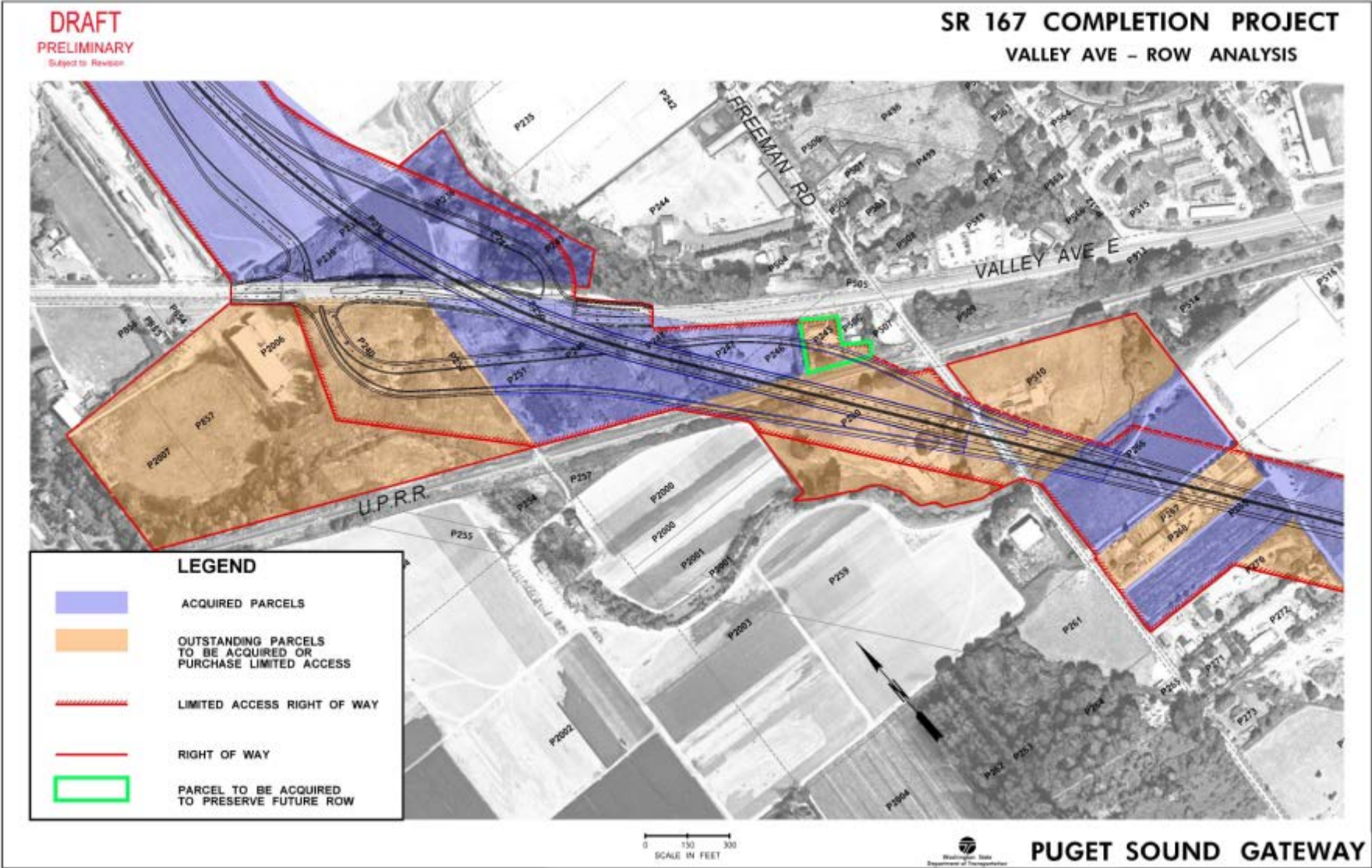
- LARGER FOOTPRINT, HIGHER COST
- MORE WETLAND IMPACTS

**FOR DISCUSSION
PURPOSES ONLY**

Right of Way Consideration at Valley Avenue



Right of Way Consideration at Valley Avenue



SR 509 Forward Compatibility

Forward Compatibility Considerations for SR 509

Considerations for deferring forward compatible components in Phase 1:

- 2045 modeling does not show a need for 6 lanes unless other major infrastructure investments are made to I-5 and existing SR 509.
- A 6 lane facility and the connections to I-5 are roughly twice the allocated budget with risk and inflation.
- All forward compatibility components would cost an additional \$28m.
- Forward compatibility was identified at a contextual need and not an essential need.

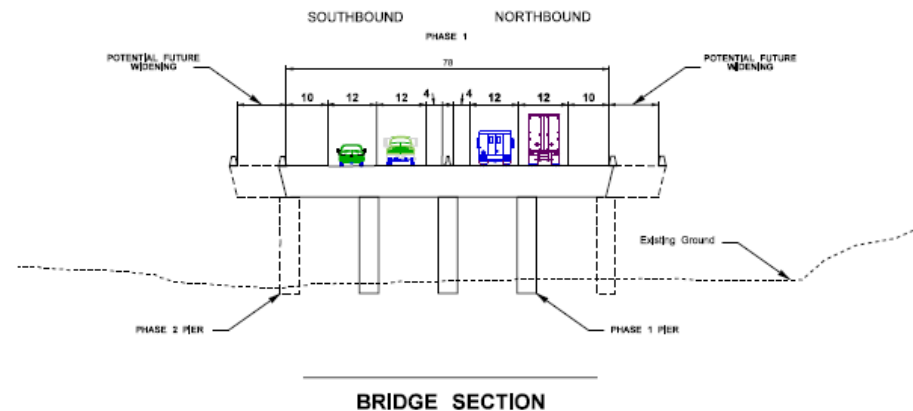
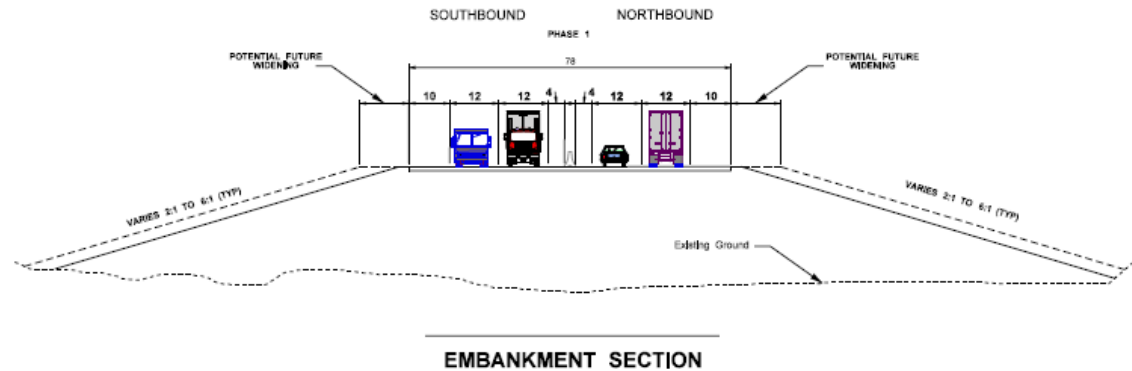
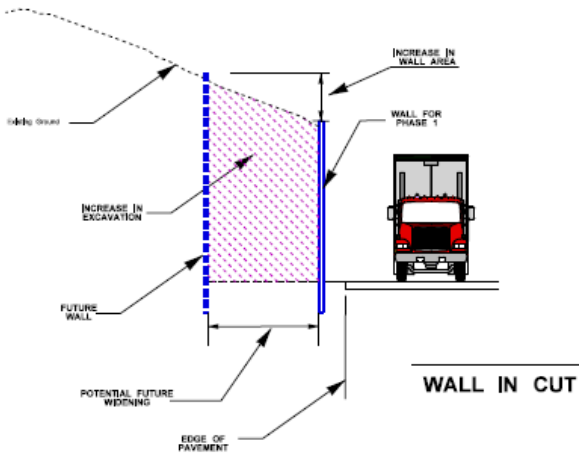
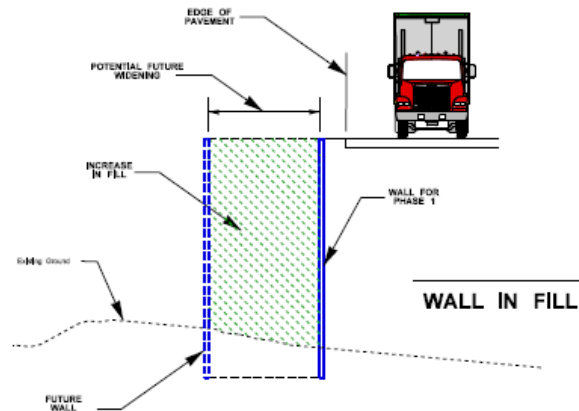
Considerations for building forward compatible components in Phase 1:

- Sound Transit is constructing FWLE in 2019 – 2022; need to construct efficiently while minimizing impacts.
- Don't want to build infrastructure that needs to be reconstructed.
- Reconstructing some elements may have significant traffic impacts in the future.

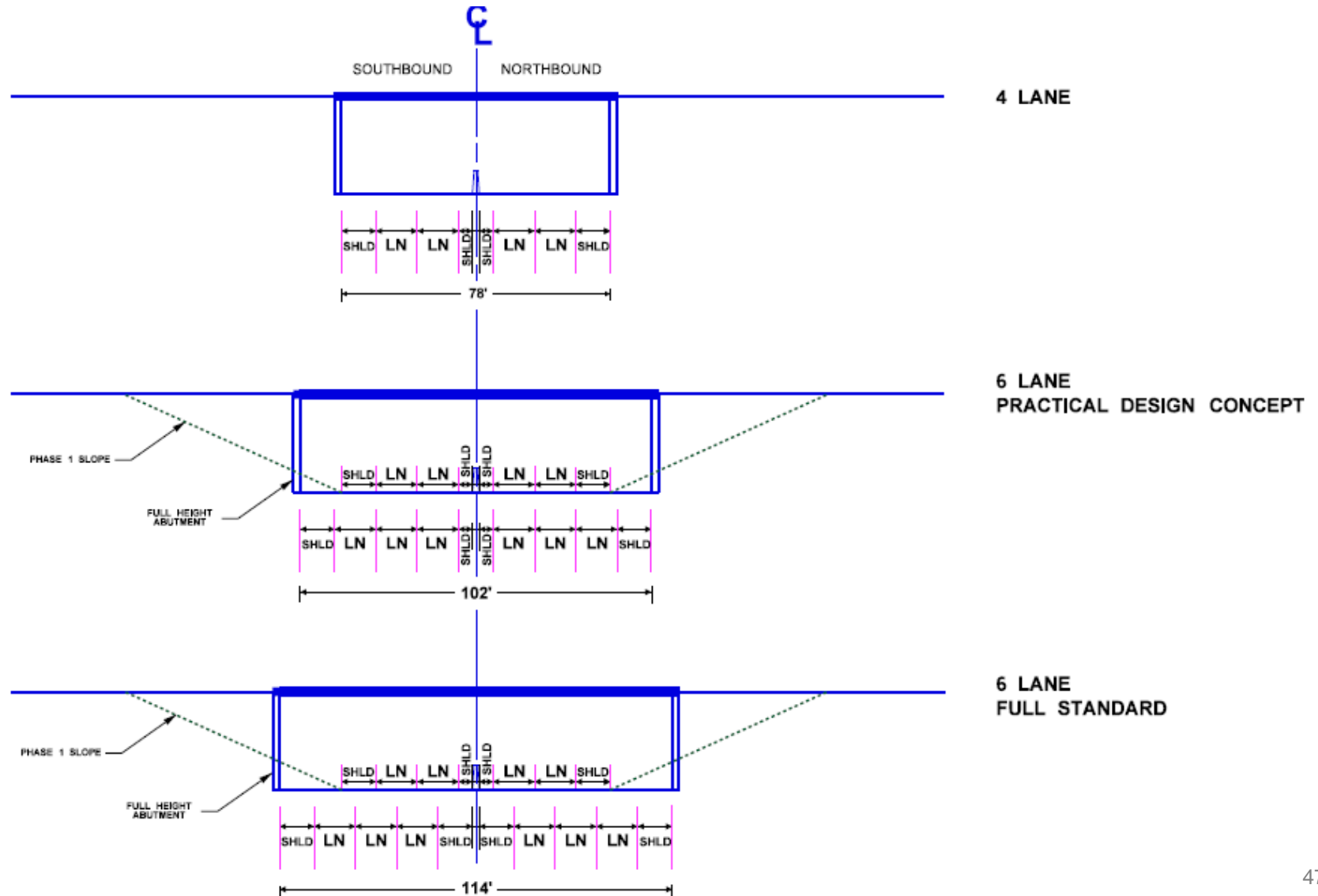
Forward Compatibility Considerations: SR 509 Single Roadway Prism

SR 509: 2 LANES EACH DIRECTION, SINGLE ROADWAY PRISM

NOT TO SCALE

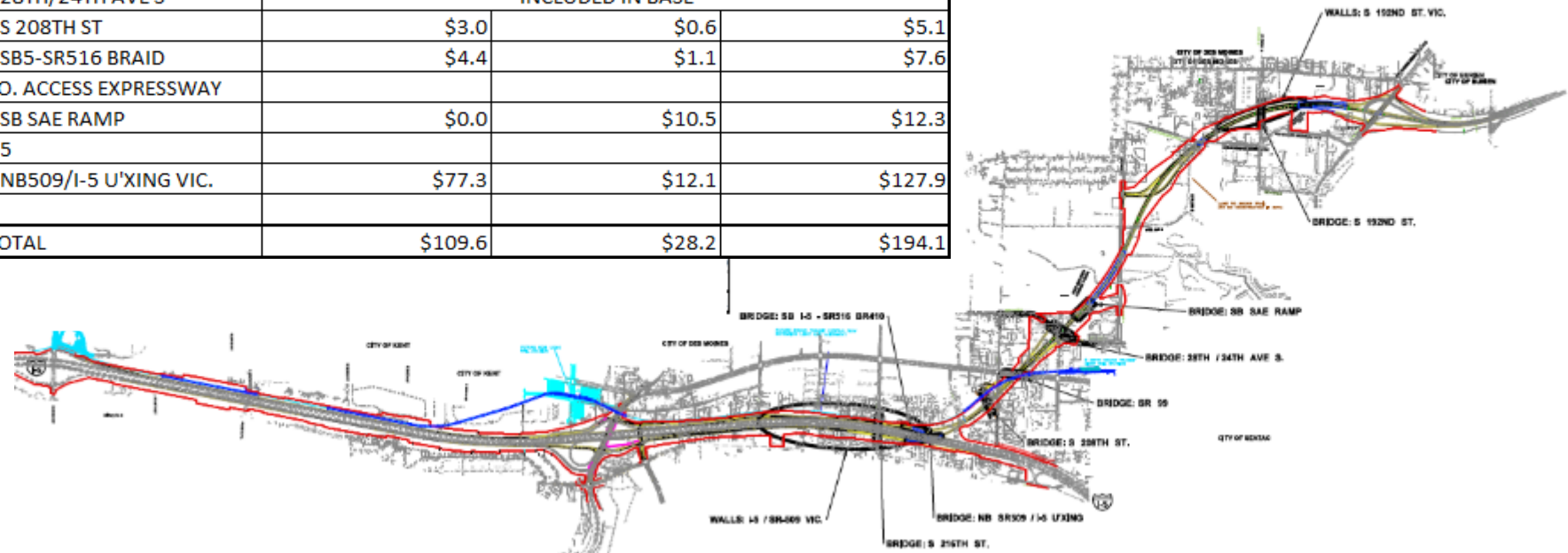


Forward Compatibility Considerations: SR 509 Section at Undercrossing

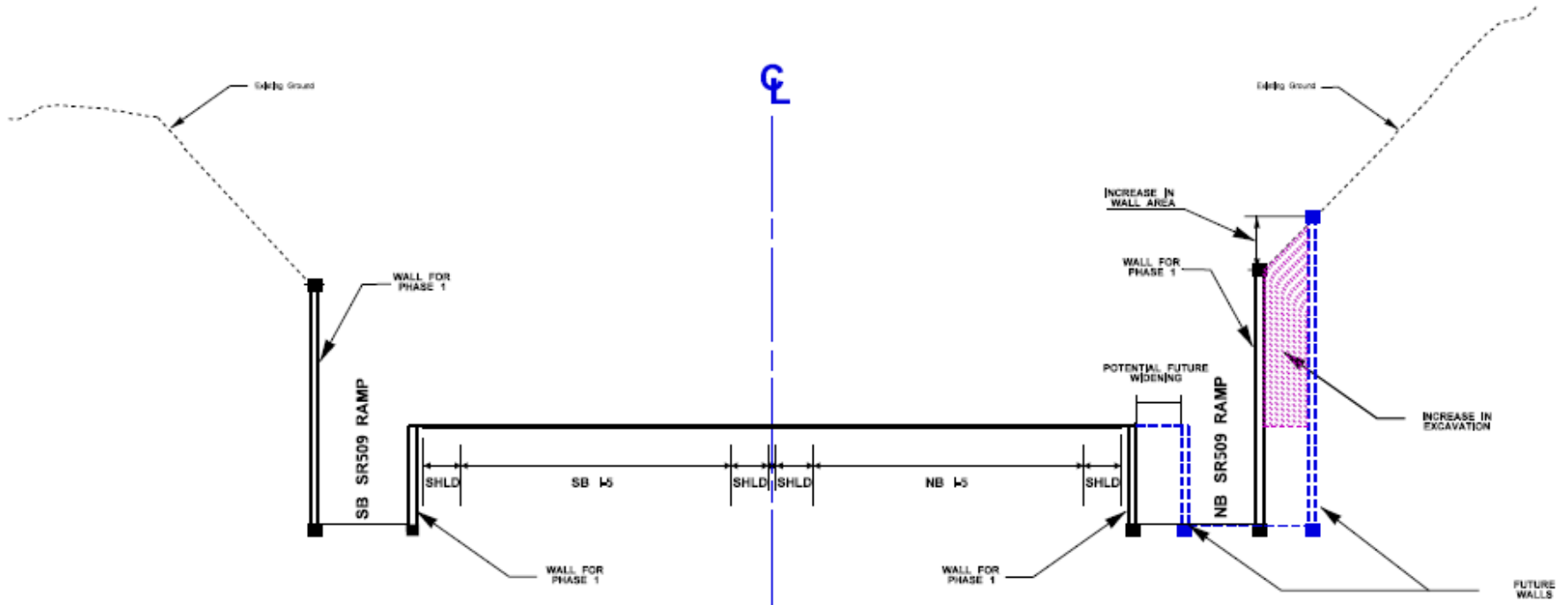


Forward Compatibility Considerations Locations:

FORWARD COMPATIBILITY COSTS - SR 509			
LOCATION	COSTS (MILLIONS)		
	BASE (YOE\$)	FORWARD COMPAT. (YOE\$)	FUTURE RECONST. (2035\$)
SOUND TRANSIT COMPATIBILITY			
SR 99	\$8.9	\$1.7	\$15.3
S 216TH ST	\$6.9	\$0.6	\$11.0
WEST SIDE WALL-216TH	COORDINATING WITH SOUND TRANSIT		
SR 509			
S. 192ND ST.	\$9.1	\$1.6	\$14.9
28TH/24TH AVE S	INCLUDED IN BASE		
S 208TH ST	\$3.0	\$0.6	\$5.1
SB5-SR516 BRAID	\$4.4	\$1.1	\$7.6
SO. ACCESS EXPRESSWAY			
SB SAE RAMP	\$0.0	\$10.5	\$12.3
I-5			
NB509/I-5 U'XING VIC.	\$77.3	\$12.1	\$127.9
TOTAL	\$109.6	\$28.2	\$194.1



Forward Compatibility Considerations: I-5



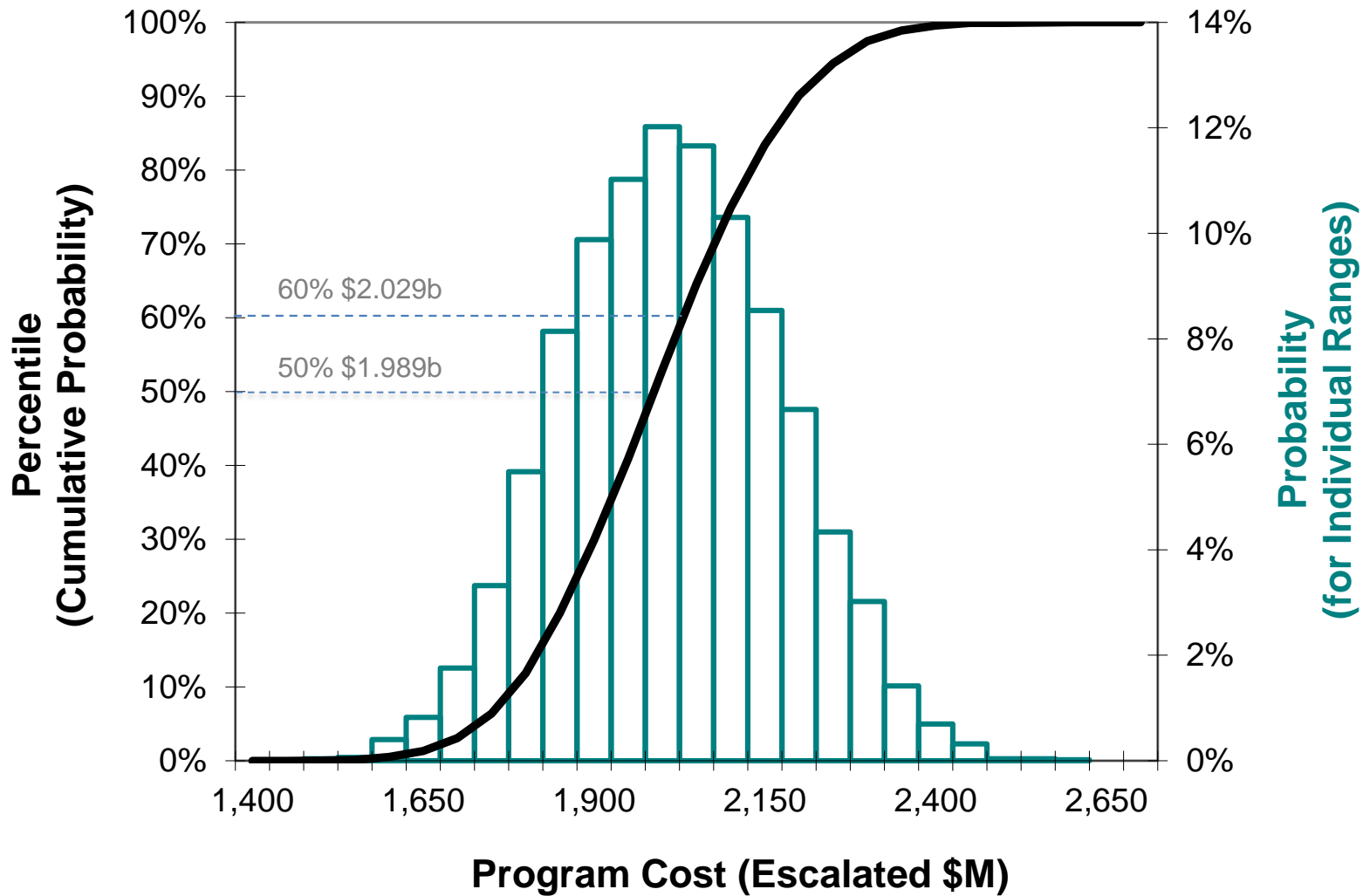
**I-5 / SR 509
INTERCHANGE
NORTH OF S 216TH ST.**

Forward Compatibility Cost Considerations

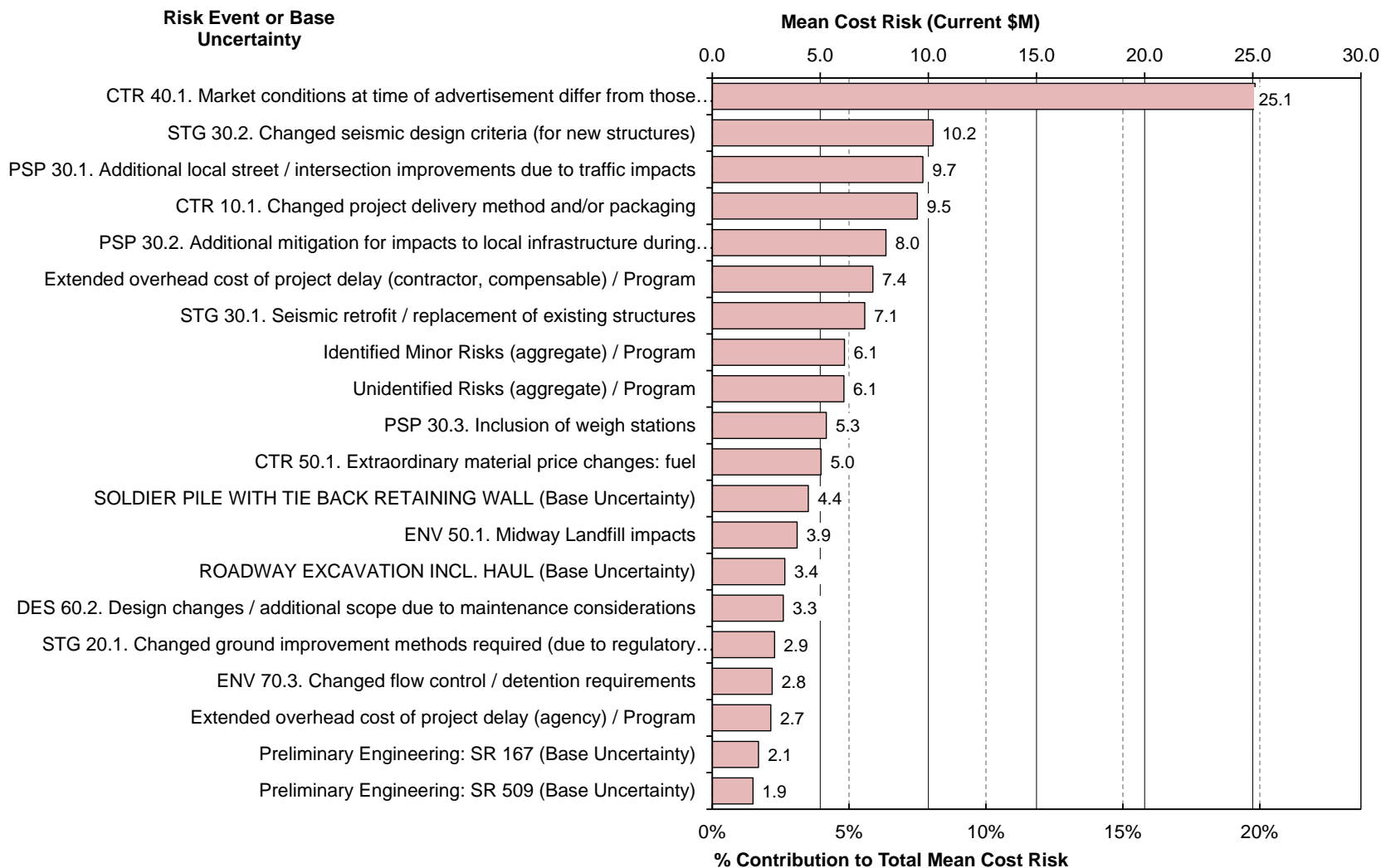
FORWARD COMPATIBILITY COSTS - SR 509			
LOCATION	COSTS (MILLIONS)		
	BASE (YOE\$)	FORWARD COMPAT. (YOE\$)	FUTURE RECONST. (2035\$)
SOUND TRANSIT COMPATIBILITY			
SR 99	\$8.9	\$1.7	\$15.3
S 216TH ST	\$6.9	\$0.6	\$11.0
WEST SIDE WALL-216TH	COORDINATING WITH SOUND TRANSIT		
SR 509			
S. 192ND ST.	\$9.1	\$1.6	\$14.9
28TH/24TH AVE S	INCLUDED IN BASE		
S 208TH ST	\$3.0	\$0.6	\$5.1
SB5-SR516 BRAID	\$4.4	\$1.1	\$7.6
SO. ACCESS EXPRESSWAY			
SB SAE RAMP	\$0.0	\$10.5	\$12.3
I-5			
NB509/I-5 U'XING VIC.	\$77.3	\$12.1	\$127.9
TOTAL	\$109.6	\$28.2	\$194.1

Updated Cost Estimates (CEVP)

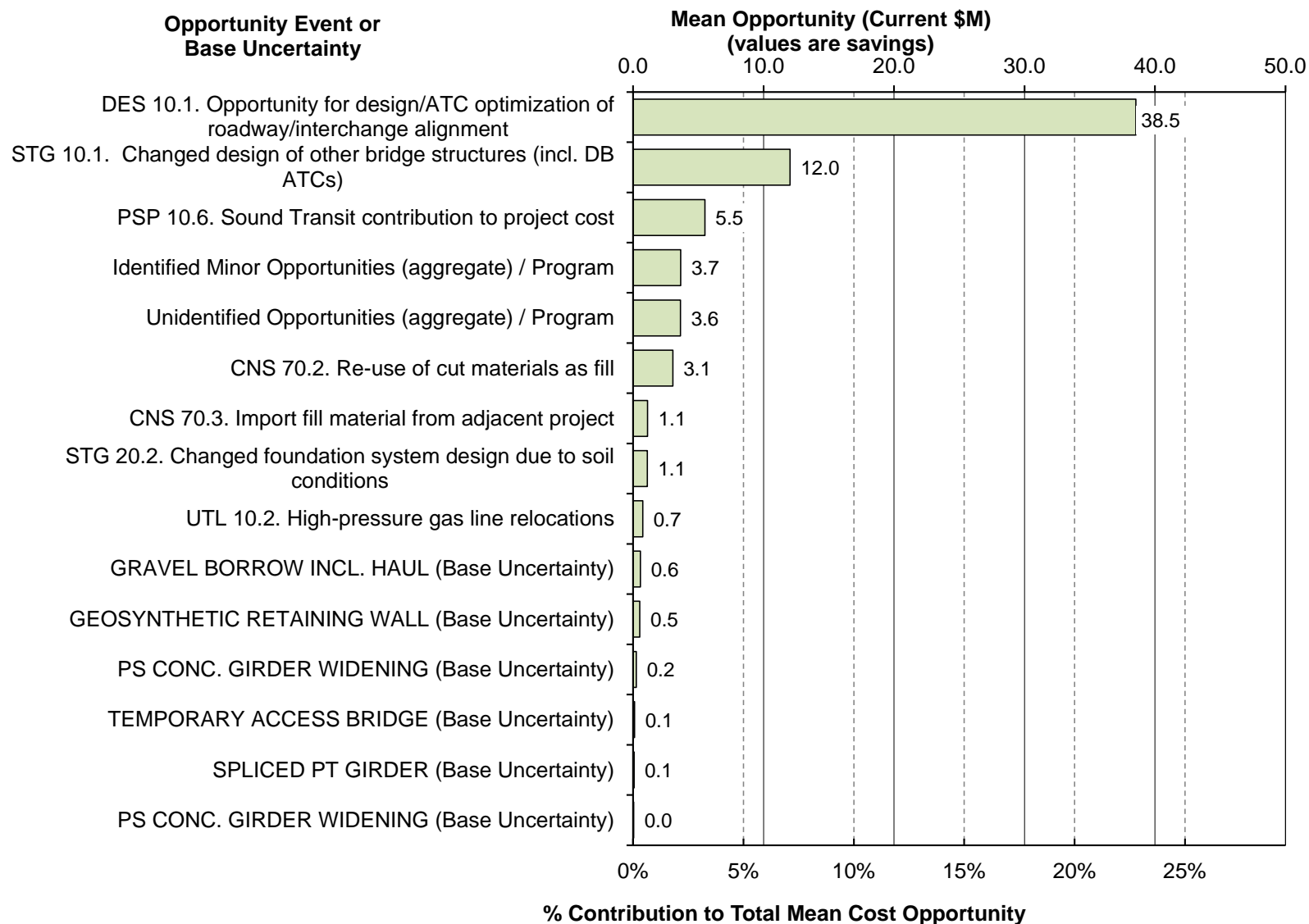
Program Cost Results: 2C/3A



Program Cost Threats



Program Cost Opportunities

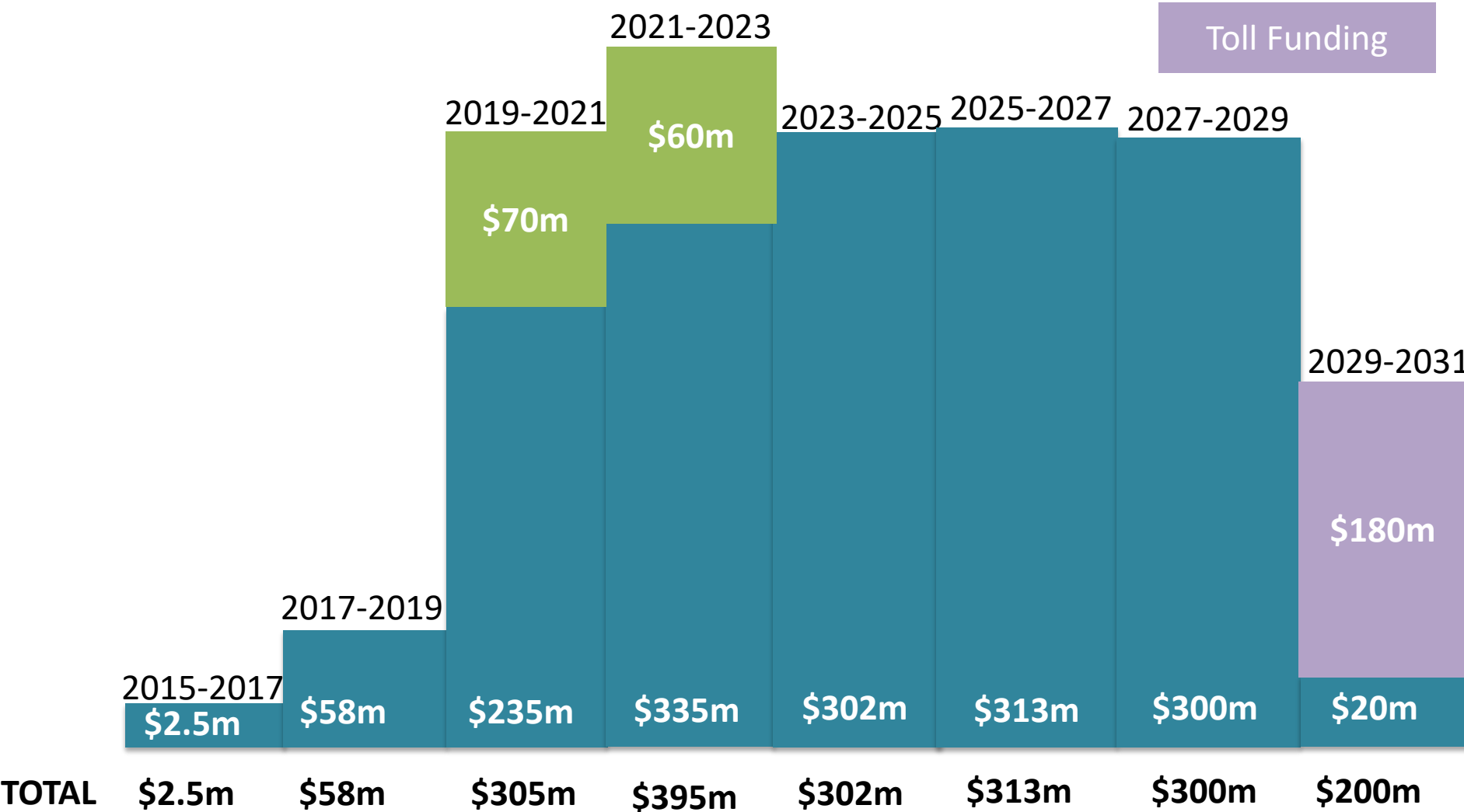


Gateway Funding

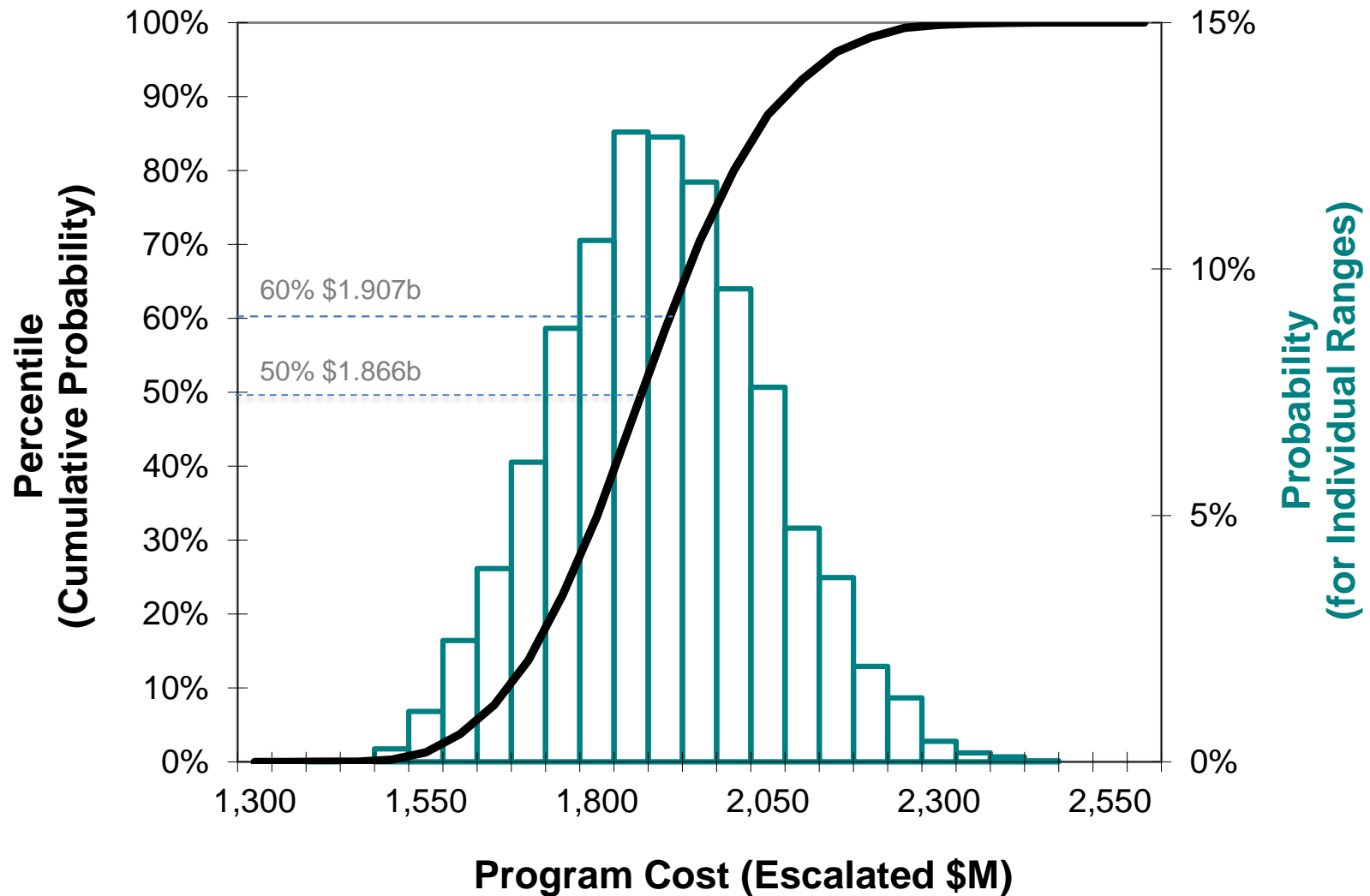
Connecting WA

Local Funding

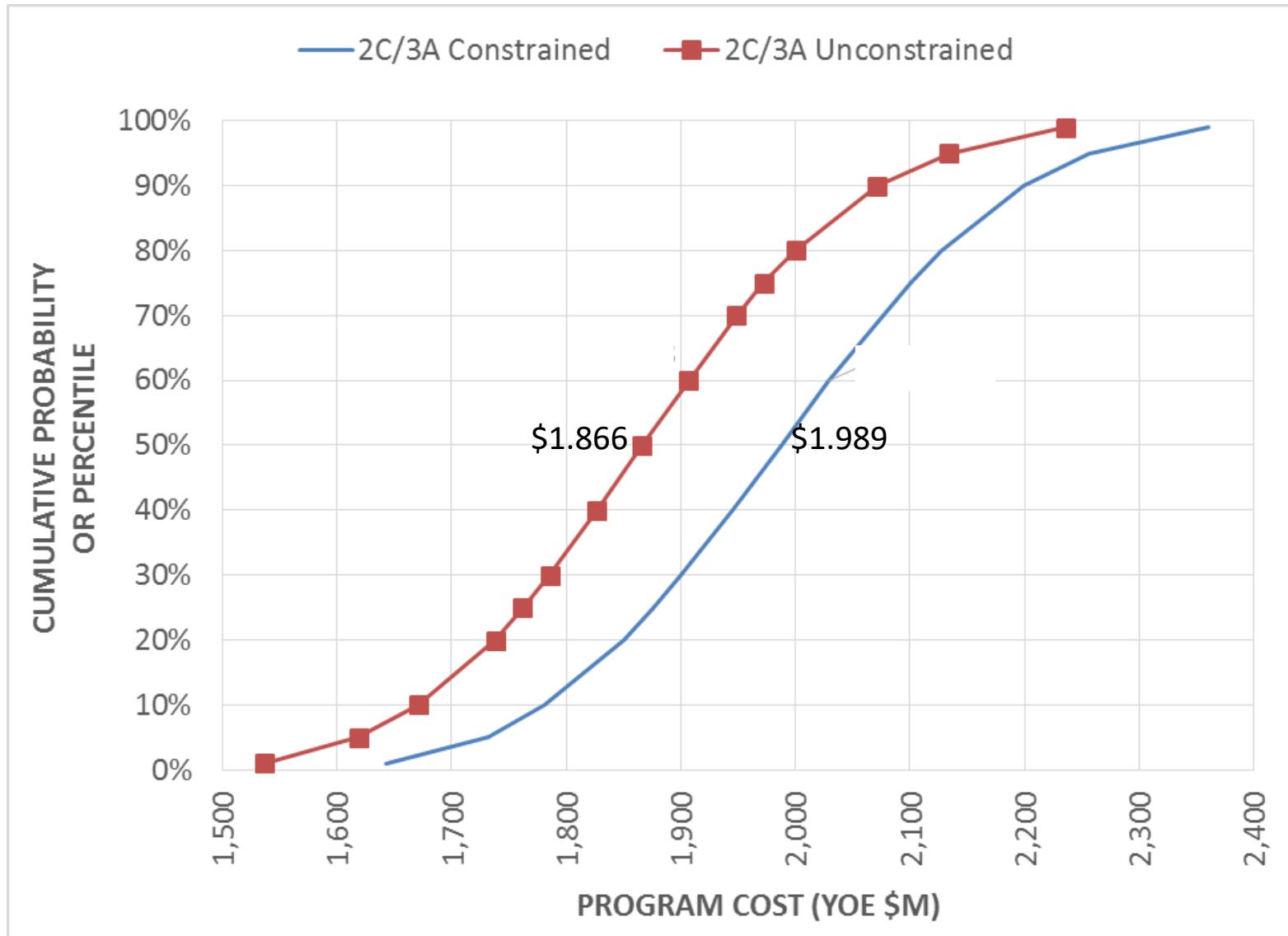
Toll Funding



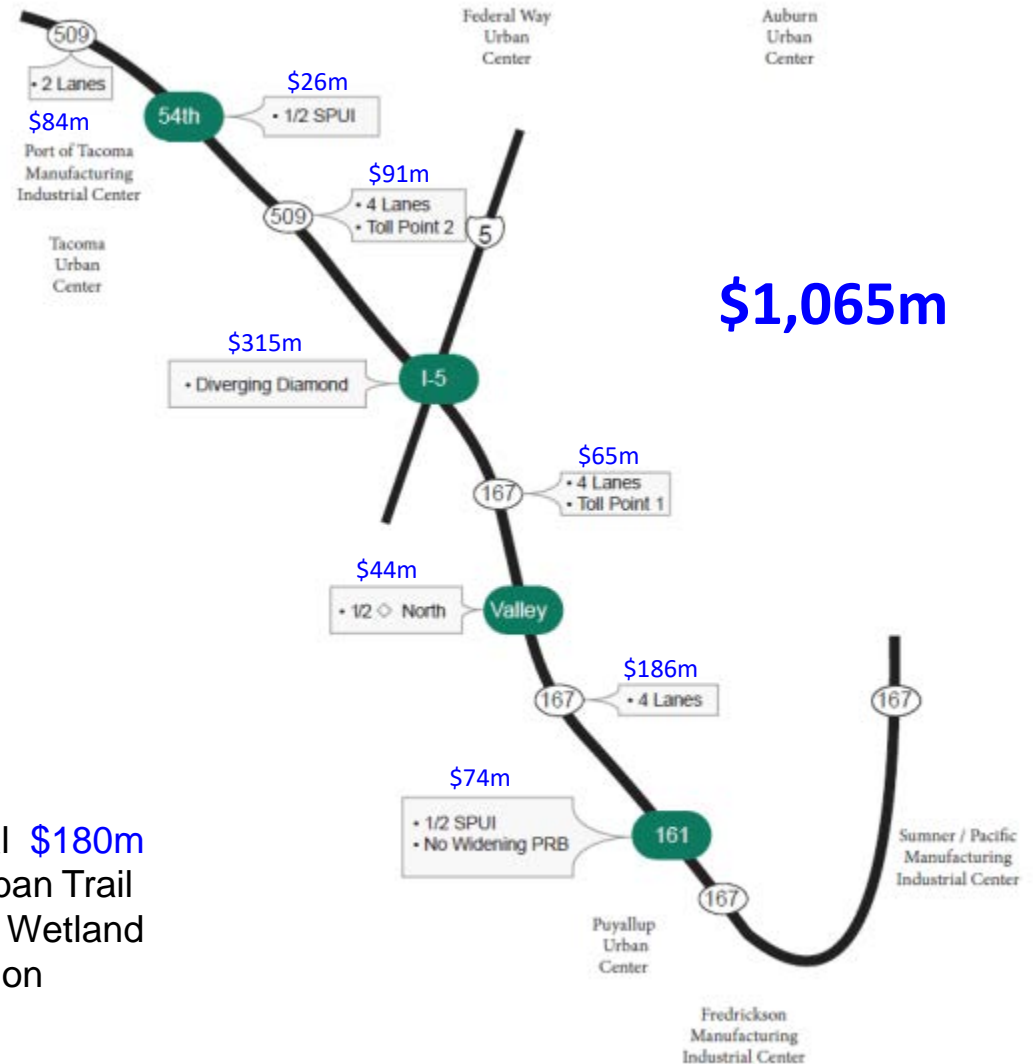
Program Cost Results: 2C/3A Unconstrained



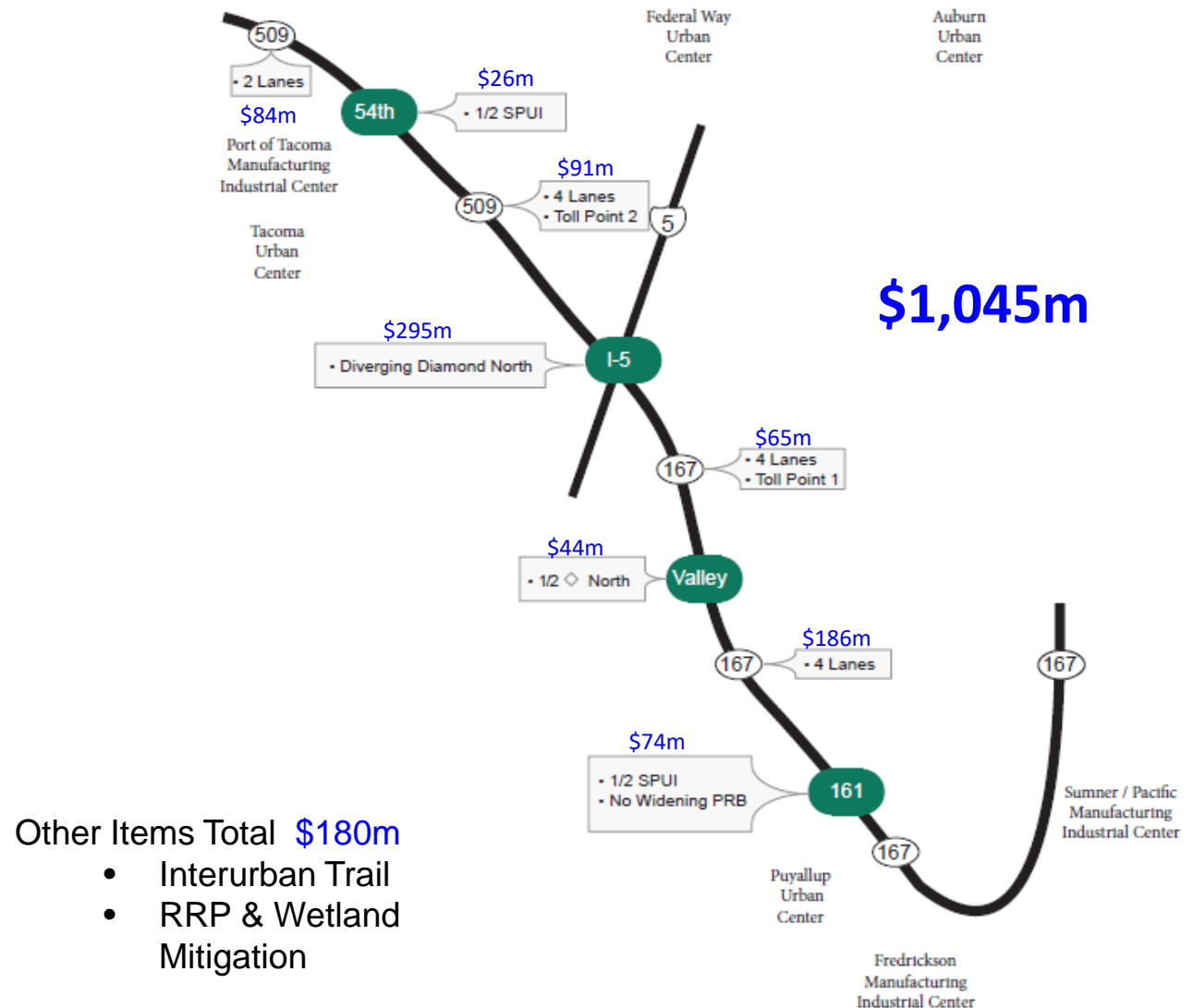
Program Cost Comparison: Constrained vs. Unconstrained



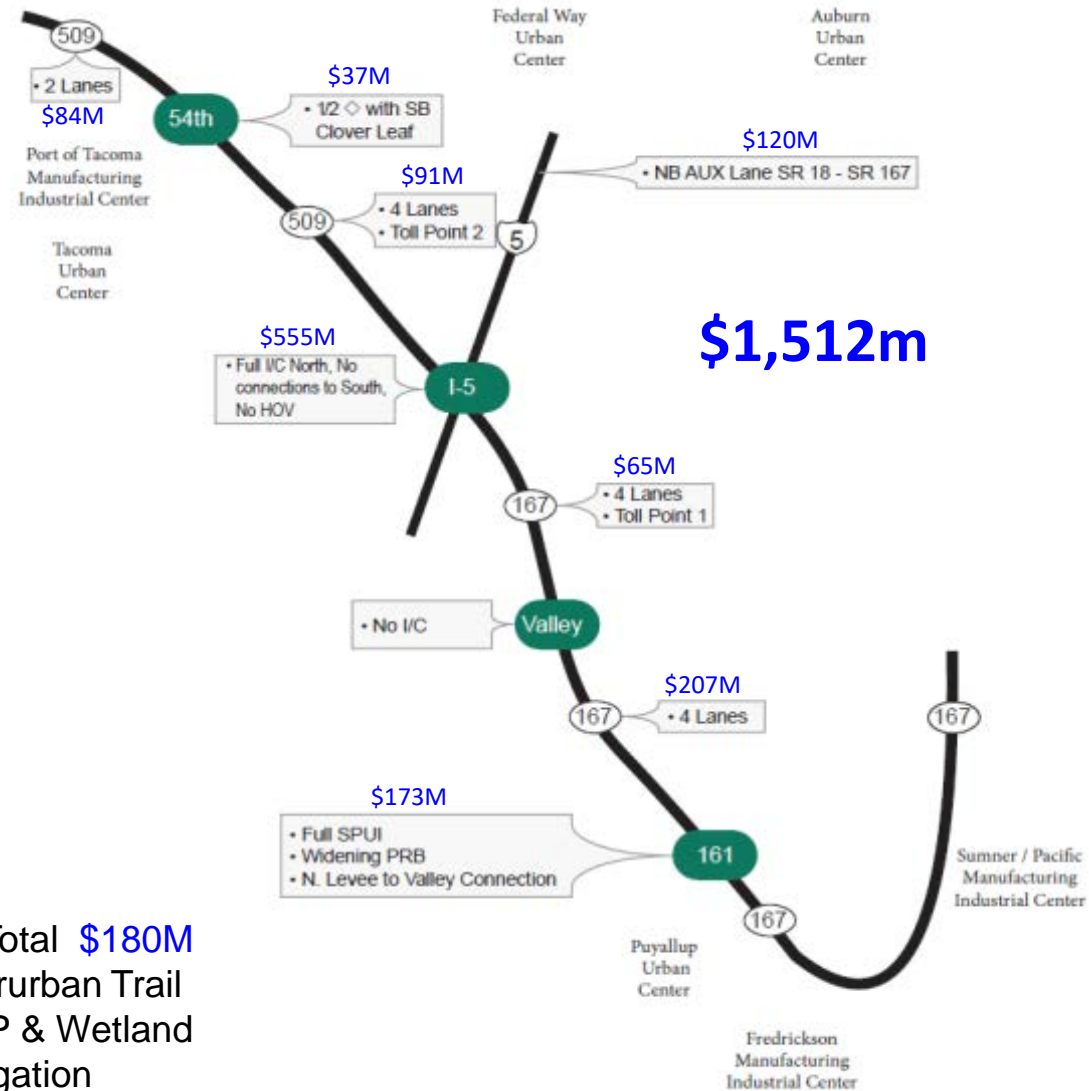
SR 167: Scenario 2C



SR 167: Scenario 2D



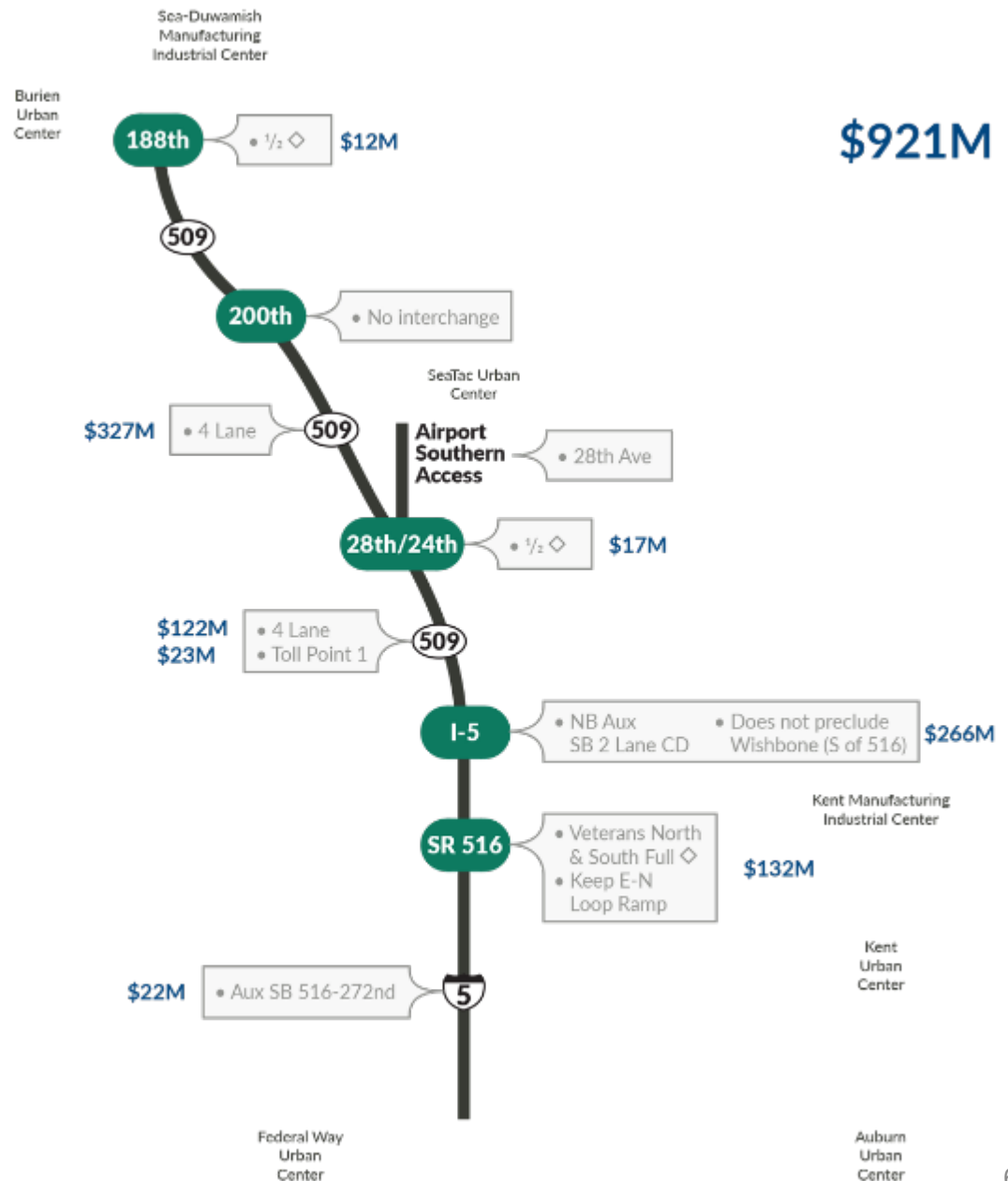
SR 167: Scenario 4A



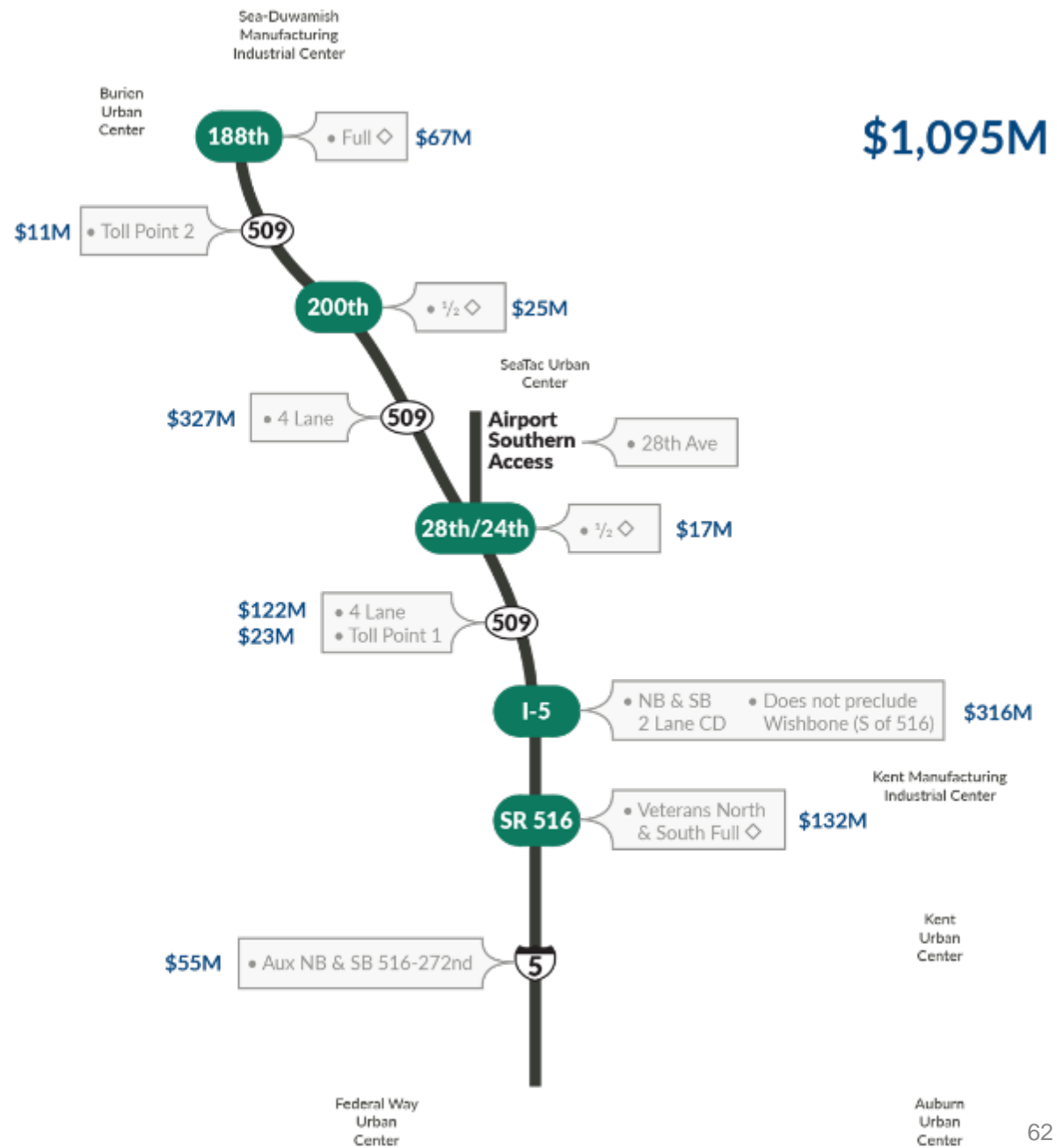
Other Items Total \$180M

- Interurban Trail
- RRP & Wetland Mitigation

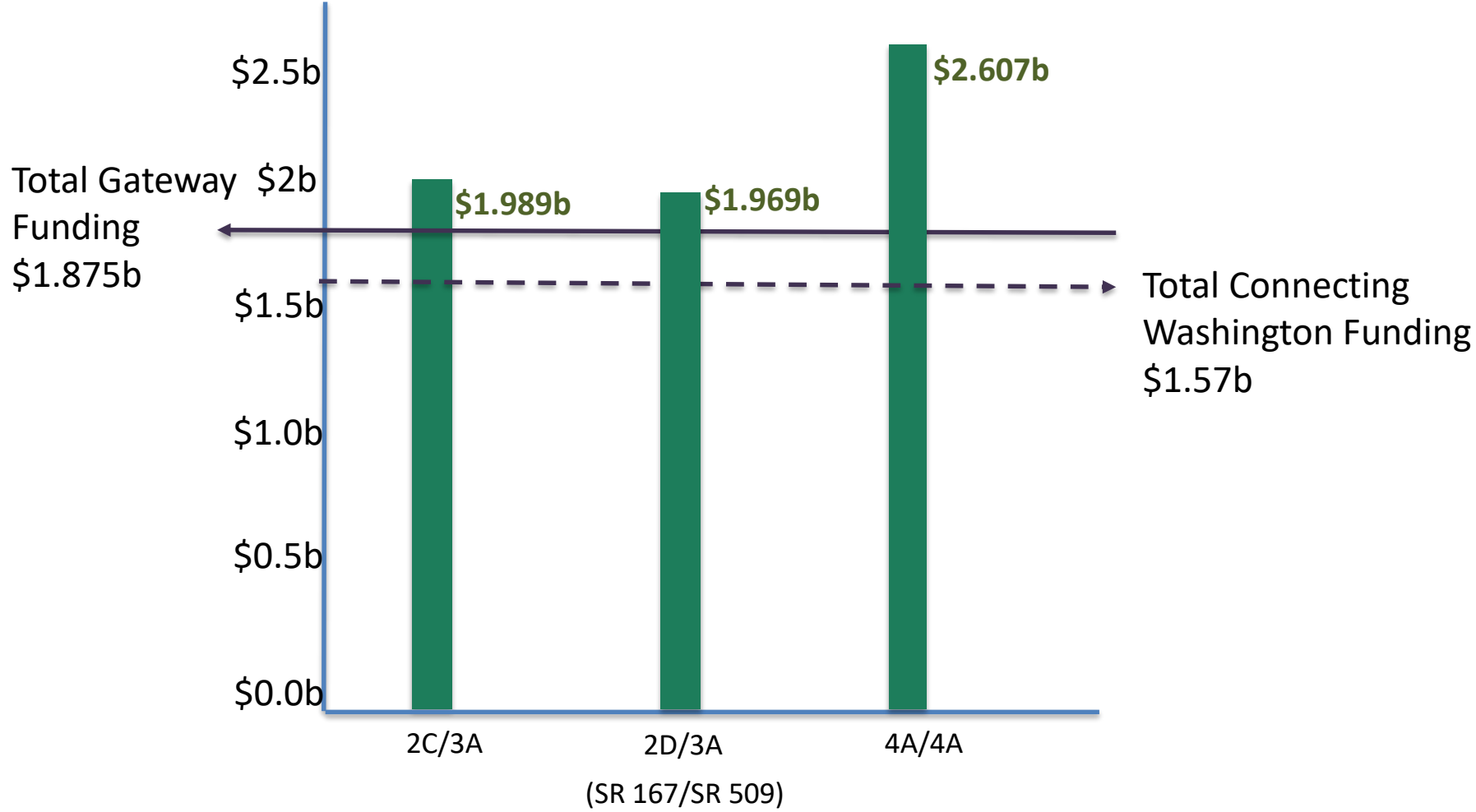
SR 509: Scenario 3A



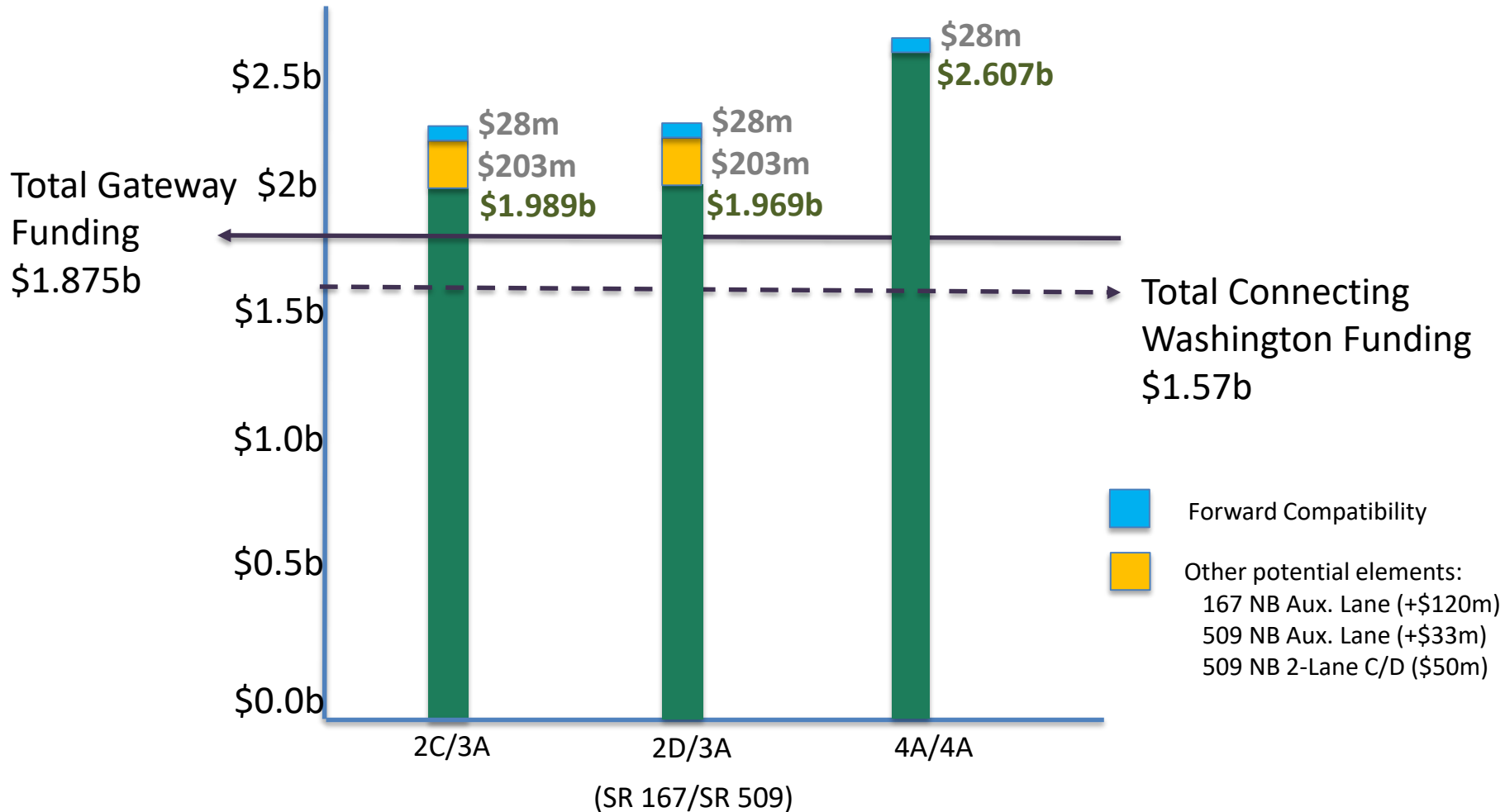
SR 509: Scenario 4A



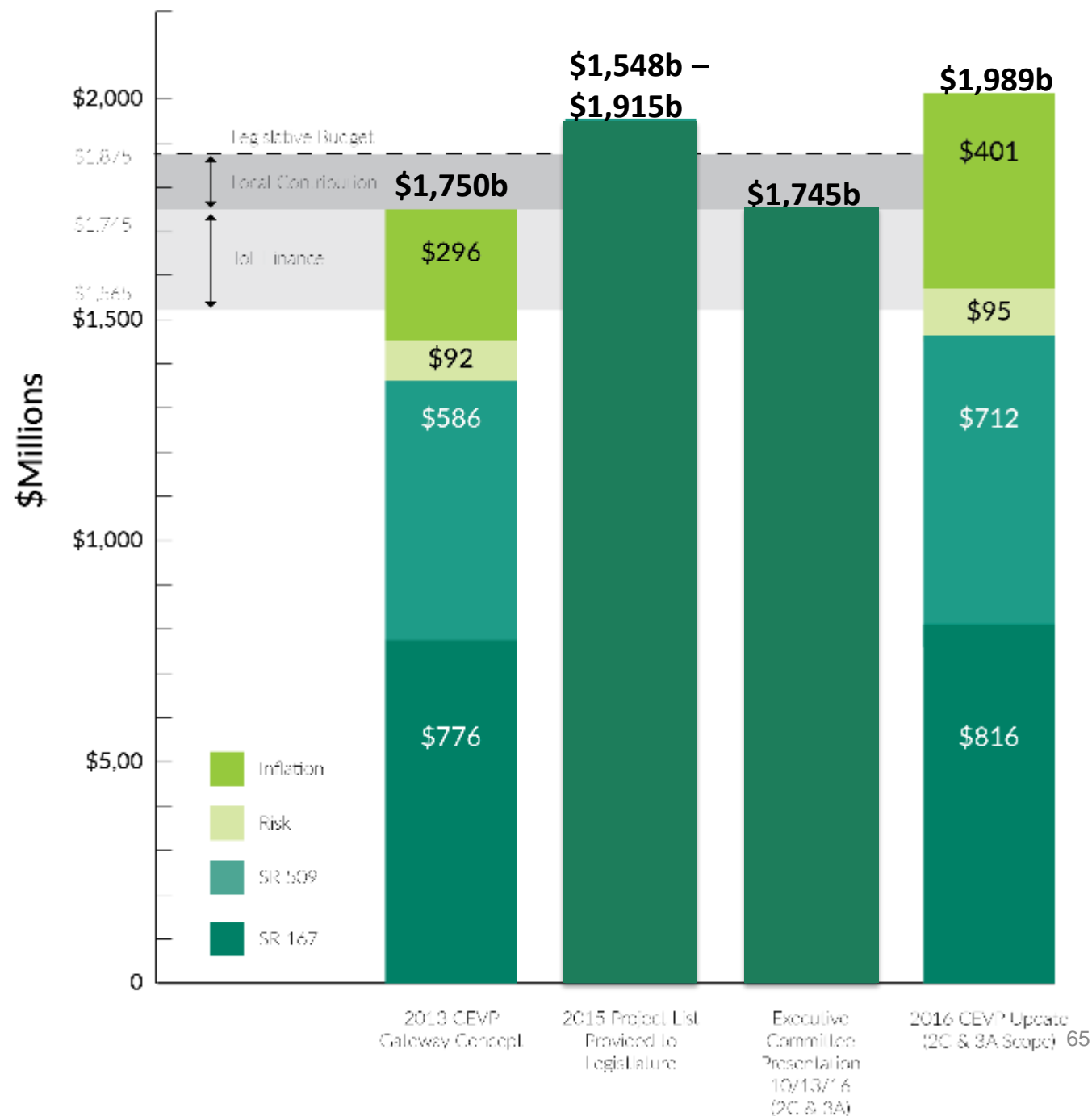
CEVP Cost Estimates



CEVP Cost Estimates with Additional Project Elements



Cost Review



FASTLANE Grant Update

FASTLANE Grant Application

- New Federal grant program focused on freight projects
- \$4.5B program through 2020
- \$800M awarded in FFY 2016 to 18 Recipients
(212 applications received totaling almost \$10B)
 - South Lander Street Grade Separation (Seattle) - \$45M of \$140M
 - Strander Boulevard Extension (Tukwila) - \$5M of \$38M
- \$850M Notice of Funding Opportunity for FFY 2017 announced on Oct 28th, with applications due Dec 15th
- Grant pursuit: Letters of Support from partners and stakeholders

FASTLANE Grant Application – Letters of Support

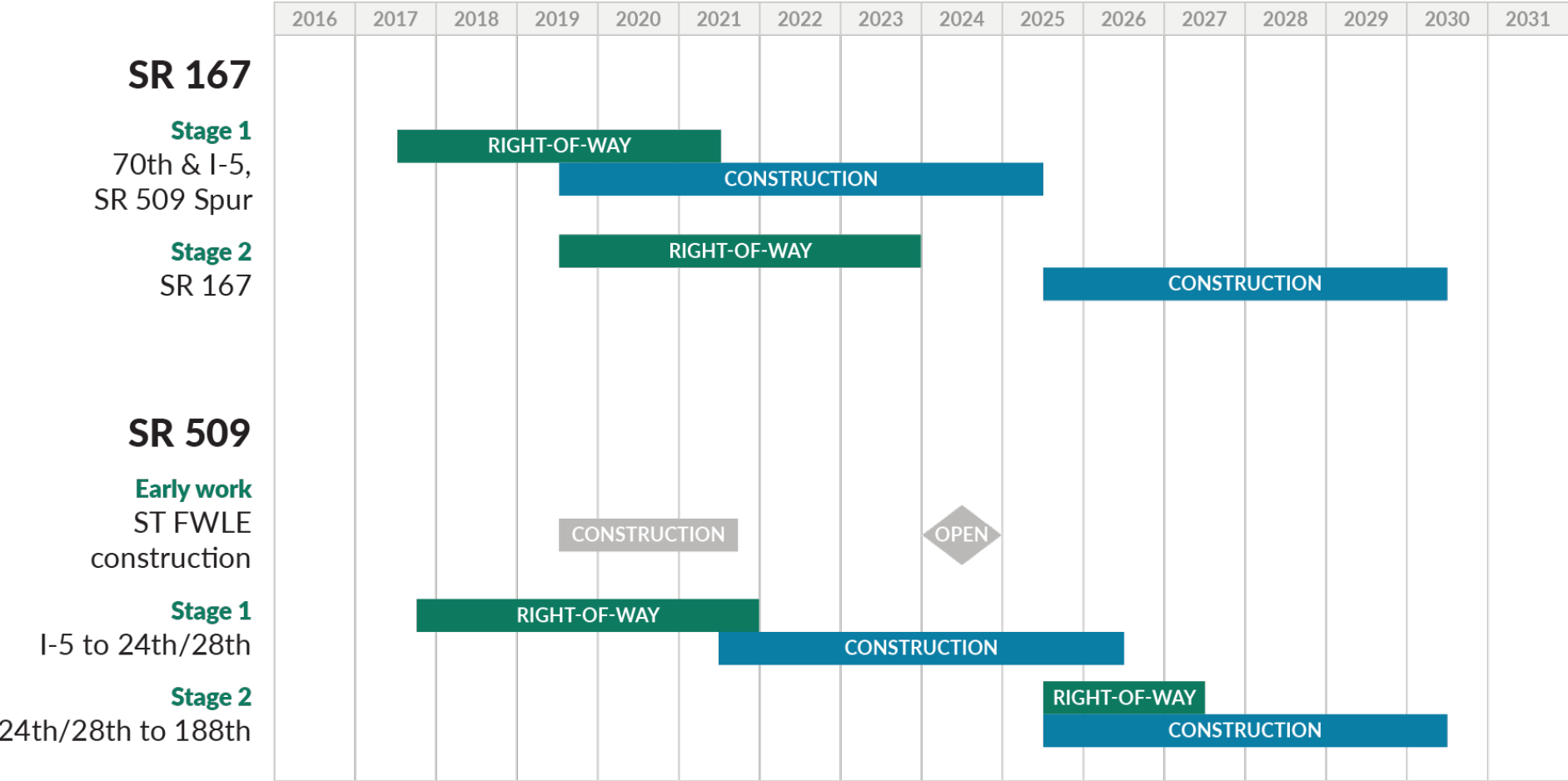
- Governor Jay Inslee
- City of Des Moines
- IBEW Local 76
- Kent Chamber of Commerce
- Northwest Seaport Alliance
- Premier Transport
- Puget Sound Regional Council
- Puyallup Tribe of Indians
- Puyallup/Sumner Chamber of Commerce
- City of Puyallup
- South County Area Transportation Board (SCATBd)
- Port of Tacoma
- Washington State Transportation Commission
- Washington Trucking Association
- City of Burien (pending)
- City of Fife (pending)
- FIMSIB (pending)
- City of Kent (pending)
- Port of Seattle (pending)

2016 FASTLANE Grants

State	Project	Project Size	Grant Amount	Project Cost	Share
VA	Atlantic Gateway	Large	\$165M	\$905M	18%
DC	Arlington Memorial Bridge	Large	\$95M	\$166M	54%
OK	US 69/75 Bryan County	Large	\$62M	\$120.6M	51%
LA	I-10 Freight CoRE	Large	\$60M	\$193.5M	31%
AZ	Interstate 10	Large	\$54M	\$157.5M	35%
CA	SR 11 Segment 2 & SB Connectors	Large	\$49M	\$172.2M	29%
WA	South Lander St	Large	\$45M	\$140M	32%
GA	Port of Savannah	Large	\$44M	\$126.7M	35%
MA	Conley Terminal Intermodal Imp.	Large	\$42M	\$102.9M	41%
WI	I-39/90 Corridor	Large	\$32M	\$1,195.3M	3%
NY	I-390/I-490/Rt. 31 Interchange	Large	\$32M	\$162.9M	20%
WA	Strander Blvd Ext & Grade Separation	Small	\$5m	\$38M	13%
Total for 18 FASTLANE Projects			\$759.2M	\$3,612.4M	21%
































































Note: Does not show 6 smaller projects that received grants

Preliminary Gateway Construction Staging



Preliminary Preferred Scenario

SR 167 Performance Evaluation Results

Performance Category 	Baseline Performance Metrics													Contextual Performance Metrics							Cost
	Mobility										Economic Vitality	Safety	Safety				Active Mobility		Env't	Other	
Mode 	Auto / Freight	HOV / Bus	Auto / Freight	HOV/Bus	Auto / Freight	HOV / Bus	Auto / Freight	HOV / Bus	Auto / Freight	HOV / Bus		Auto / Freight	HOV / Bus		Pod	Bike	Pod	Bike			
Performance METRIC 	SR 167 Performance Maintain or Improve SR 167 Operations between SR 167 and I-5		SR 509 Spur Performance Maintain or Improve SR 509 Spur Operations between I-5 and SR 509		I-5 Performance Maintain or Improve I-5 Operations between I-705 and SR 18		Travel Time Reduce travel time between Urban Centers, and Manufacturing Industrial Centers in Pierce & S. King County		Travel Time Reliability Improve travel time reliability between Urban Centers, and Manufacturing Industrial Centers in Pierce & S. King County		Complete Freeway Network / Redundancy Achieved		Delay Reduce hours of delay in subarea network		Economic Benefit Improve economic vitality		Local and Regional Comprehensive Plan Support local and regional comprehensive land use planning and development		Safety # of Serious Injury and Fatal Crashes (I-5 & SR 167 & SR 509)		
SCENARIO	SR 167 Performance Maintain or Improve SR 167 Operations between SR 167 and I-5		SR 509 Spur Performance Maintain or Improve SR 509 Spur Operations between I-5 and SR 509		I-5 Performance Maintain or Improve I-5 Operations between I-705 and SR 18		Travel Time Reduce travel time between Urban Centers, and Manufacturing Industrial Centers in Pierce & S. King County		Travel Time Reliability Improve travel time reliability between Urban Centers, and Manufacturing Industrial Centers in Pierce & S. King County		Complete Freeway Network / Redundancy Achieved		Delay Reduce hours of delay in subarea network		Economic Benefit Improve economic vitality		Local and Regional Comprehensive Plan Support local and regional comprehensive land use planning and development		Safety # of Serious Injury and Fatal Crashes (I-5 & SR 167 & SR 509)		
No Build																					
Scenario 2C: Full Connectivity at I-5 with Split Diamond at Valley and Meridian																					
Scenario 2D: Limited Connectivity at I-5 with Split Diamond at Valley & Meridian																					
Scenario 4A: Moderate Connectivity at I-5 w/Full Meridian Connectivity																					
																					\$1,065M
																					\$1,045M
																					\$1,512M

SR 509 Performance Evaluation Results

Scenario Comparison Table - SR 509 Completion Project

Date: 12/07/16

Performance Category ➡		Essential Performance Metrics										Contextual Performance Metrics								Cost	
		Mobility							Economic Vitality			Safety		Safety	Mobility			Env't	Other		
		Auto / Freight HOV / BUS	Freight / Auto / Transit	Freight / Auto / Transit	Freight / Auto / Transit	Freight / Auto / Transit	Freight / Auto / Transit	Freight / Auto / Transit					Ped	Ped & Bike							
Performance METRIC ➡	SCENARIO	SR 509 Performance Improve throughput and lower levels of congestion on new SR 509 facility	Local Performance Variant of improve 15 Operations between S Spokane St and SR18	Delay Reduce hours of delay in project subarea network	Airport - Travel Time Reduce travel time between SeaTac Airport and the area south of S 200th St	Airport - Travel Time Reliability Improve travel time reliability between SeaTac Airport and the area south of S 200th St	Centers - Travel Time Reduce travel time between Urban Centers Manufacturing Incubator, Centers in South King County	Centers - Travel Time Reliability Improve travel time reliability between Urban Centers Manufacturing Incubator, Centers in South King County	Economic Benefit Improve economic vitality	Local and Regional Comprehensive Plan Support local and regional comprehensive land use planning and development	Safety Reduction of Serious Injury and Fatal Crashes (I-5 & SR 509)	Safety Reduction of Serious Injury and Fatal Crashes on local roads	Support multimodal choices to SeaTac Airport and KDM Link Light Rail Station	Improve intermodal relationships between the SeaPort, Airport, and Manufacturing/Industrial Centers	Number and location of Crossings Reduce Pedestrian vehicle exposure	Continuity and Consistency of Pedestrian and Bicycle facilities Improve Continuity and Consistency of Pedestrian and Bicycle facilities	Sensitive Area Impact Reduce area of impact to sensitive areas	Forward Compatibility with Future highway widening	Right of Way Impact Reduce Right of Way Impact	Sound Transit FWLE Project	PRELIMINARY COST REVIEW
No Build																					
Scenario 3A - Moderate Connectivity																					\$ 921 M
Scenario 4A - Full Connectivity																					\$ 1095 M

Key Takeaways

SR 167:

- Scenario 2C & 2D operate well, slightly better NB I-5 performance with 2C, slightly better SB I-5 performance with 2D.
 - Need further analysis to understand best overall performance between the two scenarios.
- Scenario 4A operates well but is cost prohibitive.

SR 509:

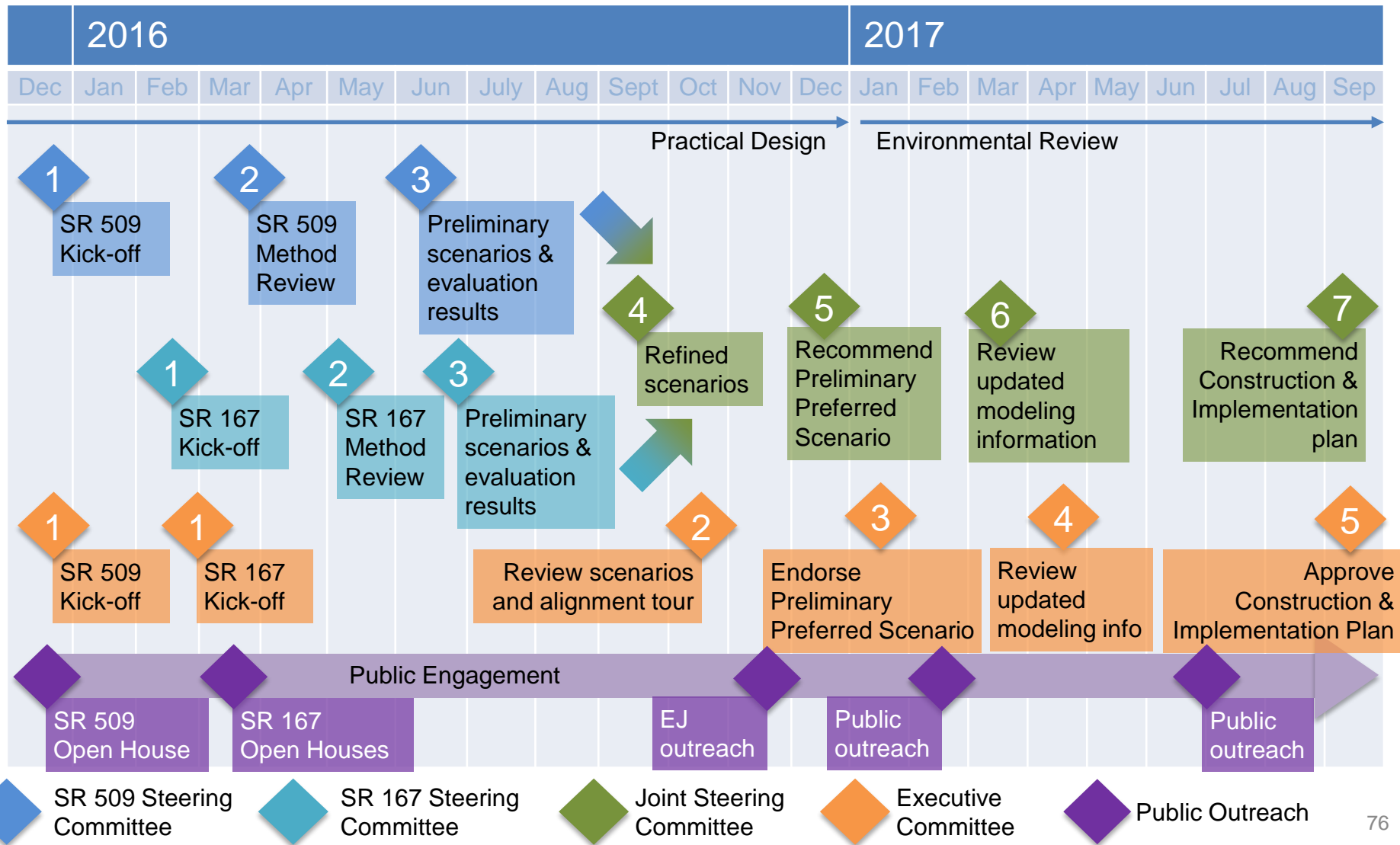
- Scenarios 3A and 4A function and rate similarly.
- Scenario 4A is cost prohibitive.

I-5

- NB I-5 improvements will be carried forward for further analysis.

Discussion

Program Schedule to Construction and Implementation Plan



More information:

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